North East view of Selborne from the Spot Lythe.

Published Nov 1749, on the Arch by B. White & Son.
THE
NATURAL HISTORY
AND
ANTIQUITIES
OF
SELBORNE,
IN THE
COUNTY OF SOUTHWICHAMPTON:
WITH
ENGRAVINGS, AND AN APPENDIX.

— — "ego Apis Matinæ
    "More modoque
    "Grata carpentis — — per laborem
    "Plurimum," — — — — Hor.

"Omnia bene describere, quæ in hoc mundo, a Deo facta, aut Naturæ creatæ viribus
"elaborata fuerunt, opus eft non uniis hominis, nec uniis ævi. Hinc Fauna & Flore

LONDON:
PRINTED BY T. BENSLEY;
FOR B. WHITE AND SON, AT HORACE'S HEAD, FLEET STREET.
M. DCC. LXXXIX.
ADVERTISEMENT.

The Author of the following Letters takes the liberty, with all proper deference, of laying before the public his idea of *parochial history*, which, he thinks, ought to consist of natural productions and occurrences as well as antiquities. He is also of opinion that if stationary men would pay some attention to the districts on which they reside, and would publish their thoughts respecting the objects that surround them, from such materials might be drawn the most complete county-histories, which are still wanting in several parts of this kingdom, and in particular in the county of Southampton.

And here he seizes the first opportunity, though a late one, of returning his most grateful acknowledgments to the reverend the President and the reverend and worthy the Fellows of *Magdalen College* in the university of *Oxford*, for their liberal behaviour in permitting their archives to be searched by a member of their own society, so far as the evidences
evidences therein contained might respect the parish and priory of Selborne. To that gentleman also, and his assistant, whose labours and attention could only be equalled by the very kind manner in which they were bestowed, many and great obligations are also due.

Of the authenticity of the documents above-mentioned there can be no doubt, since they consist of the identical deeds and records that were removed to the College from the Priory at the time of its dissolution; and, being carefully copied on the spot, may be depended on as genuine; and, never having been made public before, may gratify the curiosity of the antiquary, as well as establish the credit of the history.

If the writer should at all appear to have induced any of his readers to pay a more ready attention to the wonders of the Creation, too frequently overlooked as common occurrences; or if he should by any means, through his researches, have lent an helping hand towards the enlargement of the boundaries of historical and topographical knowledge; or if he should have thrown some small light upon ancient customs and manners, and especially on those that were monastic; his purpose will be fully answered. But if he should not have been successful in any of these his intentions,
tions, yet there remains this consolation behind—that these
his pursuits, by keeping the body and mind employed,
have, under Providence, contributed to much health and
cheerfulness of spirits, even to old age: and, what still adds
to his happiness, have led him to the knowledge of a circle
of gentlemen whose intelligent communications, as they
have afforded him much pleasing information, so, could he
flatter himself with a continuation of them, would they ever
be deemed a matter of singular satisfaction and improvement.

Selborne,
January 1st, 1788.

G I L. W H I T E.
THE
NATURAL HISTORY
OF
SELBORNE.
THE

NATURAL HISTORY

OF

SELBORNE.

LETTER I.

TO THOMAS PENNANT, ESQUIRE.

THE parish of Selborne lies in the extreme eastern corner of the county of Hampshire, bordering on the county of Sussex, and not far from the county of Surrey; is about fifty miles south-west of London, in latitude 51, and near midway between the towns of Alton and Petersfield. Being very large and extensive it abuts on twelve parishes, two of which are in Sussex, viz. Trotton and Rogate. If you begin from the south and proceed westward the adjacent parishes are Emshott, Newton Valence, Faringdon, Hartley Manduit, Great Ward le ham, Kingsley, Hedleigh, Bramshott, Trotton, Rogate, Lyffe, and Greatham. The soils of this district are almost as various and diversified as the views and aspects. The high part to the south-west consists of a vast hill of chalk, rising three hundred
hundred feet above the village; and is divided into a sheep down, the high wood, and a long hanging wood called The Hanger. The covert of this eminence is altogether beech, the most lovely of all forest trees, whether we consider it’s smooth rind or bark, it’s glossy foliage, or graceful pendulous boughs. The down, or sheep-walk, is a pleasing park-like spot, of about one mile by half that space, jutting out on the verge of the hill-country, where it begins to break down into the plains, and commanding a very engaging view, being an assemblage of hill, dale, wood-lands, heath, and water. The prospect is bounded to the south-east and east by the vast range of mountains called The Sussex Downs, by Guild-down near Guildford, and by the Downs round Dorking, and Ryegate in Surrey, to the north-east, which altogether, with the country beyond Alton and Farnham, form a noble and extensive outline.

At the foot of this hill, one stage or step from the uplands, lies the village, which consists of one single straggling street, three quarters of a mile in length, in a sheltered vale, and running parallel with The Hanger. The houses are divided from the hill by a vein of stiff clay (good wheat-land), yet stand on a rock of white stone, little in appearance removed from chalk; but seems so far from being calcareous, that it endures extreme heat. Yet that the freestone still preserves somewhat that is analogous to chalk, is plain from the beeches which descend as low as those rocks extend, and no farther, and thrive as well on them, where the ground is steep, as on the chalks.

The cart-way of the village divides, in a remarkable manner, two very incongruous soils. To the south-west is a rank clay, that requires the labour of years to render it mellow; while the gardens to the north-east, and small enclosures behind, consist of a warm
OF SELBORNE.

warm, forward, crumbling mould, called *black malm*, which seems highly saturated with vegetable and animal manure; and these may perhaps have been the original site of the town; while the woods and coverts might extend down to the opposite bank.

At each end of the village, which runs from south-east to north-west, arises a small rivulet: that at the north-west end frequently fails; but the other is a fine perennial spring, little influenced by drought or wet seasons, called *Well-head*. This breaks out of some high grounds joining to Nore Hill, a noble chalk promontory, remarkable for sending forth two streams into two different seas. The one to the south becomes a branch of the *Arun*, running to *Arundel*, and so falling into the *British* channel; the other to the north. The *Selborne* stream makes one branch of the *Wey*; and, meeting the *Black-dowen* stream at *Hedleigh*, and the *Alton* and *Farnham* stream at *Tilford-bridge*, swells into a considerable river, navigable at *Godalming*; from whence it passes to *Guildford*, and so into the *Thames* at *Weybridge*; and thus at the *Nore* into the *German* ocean.

Our wells, at an average, run to about sixty-three feet, and when sunk to that depth seldom fail; but produce a fine limpid water, soft to the taste, and much commended by those who drink the pure element, but which does not lather well with soap.

To the north-west, north and east of the village, is a range of fair enclosures, consisting of what is called a *white malm*, a sort of

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*a* This spring produced, *September 14, 1781*, after a severe hot summer, and a preceding dry spring and winter, nine gallons of water in a minute, which is five hundred and forty in an hour, and twelve thousand nine hundred and sixty, or two hundred and sixteen hogheads, in twenty-four hours, or one natural day. At this time many of the wells failed, and all the ponds in the vales were dry, rotten
rotten or rubble stone, which, when turned up to the frost and rain, moulders to pieces, and becomes manure to itself.

Still on to the north-east, and a step lower, is a kind of white land, neither chalk nor clay, neither fit for pasture nor for the plough, yet kindly for hops, which root deep into the freestone and have their poles and wood for charcoal growing just at hand. This white soil produces the brightest hops.

As the parish still inclines down towards Wolmer-forest, at the juncture of the clays and sand the soil becomes a wet, sandy loam, remarkable for timber, and infamous for roads. The oaks of Temple and Blackmoor stand high in the estimation of purveyors, and have furnished much naval timber; while the trees on the freestone grow large, but are what workmen call shake, and so brittle as often to fall to pieces in sawing. Beyond the sandy loam the soil becomes an hungry lean sand, till it mingles with the forest; and will produce little without the assistance of lime and turnips.

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LETTER II.

TO THE SAME.

In the court of Norton farm house, a manor farm to the north-west of the village, on the white malm, stood within these twenty years a broad-leaved elm, or wych hazel, *ulmus folio latissimo*, fcebro of Ray, which, though it had lost a considerable leading bough.

* This soil produces good wheat and clover.
bough in the great storm in the year 1703, equal to a moderate tree, yet, when felled, contained eight loads of timber; and, being too bulky for a carriage, was fawn off at seven feet above the butt, where it measured near eight feet in the diameter. This elm I mention to shew to what a bulk planted elms may attain; as this tree must certainly have been such from its situation.

In the centre of the village, and near the church, is a square piece of ground surrounded by houses, and vulgarly called The Plestor. In the midst of this spot stood, in old times, a vast oak, with a short squat body, and huge horizontal arms extending almost to the extremity of the area. This venerable tree, surrounded with stone steps, and seats above them, was the delight of old and young, and a place of much resort in summer evenings; where the former sat in grave debate, while the latter frolicked and danced before them. Long might it have stood, had not the amazing tempest in 1703 overturned it at once, to the infinite regret of the inhabitants, and the vicar, who bestowed several pounds in setting it in its place again: but all his care could not avail; the tree sprouted for a time, then withered and died. This oak I mention to shew to what a bulk planted oaks also may arrive: and planted this tree must certainly have been, as will appear from what will be said farther concerning this area, when we enter on the antiquities of Selborne.

On the Blackmoor estate there is a small wood called Lofer's, of a few acres, that was lately furnished with a set of oaks of a peculiar growth and great value; they were tall and taper like firs, but standing near together had very small heads, only a little brush without any large limbs. About twenty years ago the

* Vide the plate in the antiquities.*
bridge at the Toy, near Hampton Court, being much decayed, some trees were wanted for the repairs that were fifty feet long without bough, and would measure twelve inches diameter at the little end. Twenty such trees did a purveyor find in this little wood, with this advantage, that many of them answered the description at sixty feet. These trees were sold for twenty pounds apiece.

In the centre of this grove there stood an oak, which, though shapely and tall on the whole, bulged out into a large excrescence about the middle of the stem. On this a pair of ravens had fixed their residence for such a series of years, that the oak was distinguished by the title of The Raven-tree. Many were the attempts of the neighbouring youths to get at this eyry: the difficulty whetted their inclinations, and each was ambitious of surmounting the arduous task. But, when they arrived at the dwelling, it jutted out so in their way, and was so far beyond their grasp, that the most daring lads were awed, and acknowledged the undertaking to be too hazardous. So the ravens built on, nest upon nest, in perfect security, till the fatal day arrived in which the wood was to be levelled. It was in the month of February, when those birds usually sit. The saw was applied to the butt, the wedges were inserted into the opening, the woods echoed to the heavy blows of the beetle or mallet, the tree nodded to its fall; but still the dam sat on. At last, when it gave way, the bird was flung from her nest; and, though her parental affection deserved a better fate, was whipped down by the twigs, which brought her dead to the ground.
MYTILUS, Crista Galli.
The fossil-shells of this district, and sorts of stone, such as have fallen within my observation, must not be passed over in silence. And first I must mention, as a great curiosity, a specimen that was plowed up in the chalky fields, near the side of the Down, and given to me for the singularity of it's appearance, which, to an incurious eye, seems like a petrified fish of about four inches long, the cardo passing for an head and mouth. It is in reality a bivalve of the Linnean Genus of Mytilus, and the species of Cri$la Galli; called by Lister, Raffelum; by Rumphius, Ostreum plicatum minus; by D'Argenville, Auris Porci, & Cri$la Galli; and by those who make collections cock's comb. Though I applied to several such in London, I never could meet with an entire specimen; nor could I ever find in books any engraving from a perfect one. In the superb museum at Leicester-house permission was given me to examine for this article; and, though I was disappointed as to the fossil, I was highly gratified with the sight of several of the shells themselves in high preservation. This bivalve is only known to inhabit the Indian ocean, where it fixes itself to a zoophyte, known by the name Gorgonia. The curious foldings of the future the one into the other, the alternate flutings or grooves, and the curved form of my specimen being much easier expressed by the pencil than by words, I have caused it to be drawn and engraved.

Cornua Ammonis are very common about this village. As we were cutting an inclining path up The Hanger, the labourers found them.
them frequently on that steep, just under the soil, in the chalk, and of a considerable size. In the lane above Well-bead, in the way to Embsay, they abound in the bank in a darkish sort of marl; and are usually very small and soft: but in Clay’s Pond, a little farther on, at the end of the pit, where the soil is dug out for manure, I have occasionally observed them of large dimensions, perhaps fourteen or sixteen inches in diameter. But as these did not consist of firm flone, but were formed of a kind of terra lapidosa, or hardened clay, as soon as they were exposed to the rains and frost they mouldered away. These seemed as if they were a very recent production. In the chalk-pit, at the north-west end of The Hunger, large nautili are sometimes observed.

In the very thickest strata of our freestone, and at considerable depths, well-diggers often find large scallops or peclines, having both shells deeply striated, and ridged and furrowed alternately. They are highly impregnated with, if not wholly composed of, the flone of the quarry.

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LETTER IV.

TO THE SAME.

As in a former letter the freestone of this place has been only mentioned incidentally, I shall here become more particular.

This flone is in great request for hearth-flones, and the beds of ovens: and in lining of lime-kilns it turns to good account; for the workmen use sandy loam instead of mortar; the sand of which fluxes, and runs by the intense heat, and so coats over the

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\(^d\) There may probably be also in the chalk itself that is burnt for lime a proportion of sand: for few chalks are so pure as to have none.

whole
whole face of the kiln with a strong vitrified coat like glass, that it is well preserved from injuries of weather, and endures thirty or forty years. When chiseled smooth, it makes elegant fronts for houses, equal in colour and grain to the Bath stone; and superior in one respect, that, when seasoned, it does not scale. Decent chimney-pieces are worked from it of much closer and finer grain than Portland; and rooms are floored with it; but it proves rather too soft for this purpose. It is a freestone, cutting in all directions; yet has something of a grain parallel with the horizon, and therefore should not be furbedded, but laid in the same position that it grows in the quarry. On the ground abroad this firestone will not succeed for pavements, because, probably some degree of saltiness prevailing within it, the rain tears the slabs to pieces. Though this stone is too hard to be acted on by vinegar; yet both the white part, and even the blue rag, ferments strongly in mineral acids. Though the white stone will not bear wet, yet in every quarry at intervals there are thin strata of blue rag, which resist rain and frost; and are excellent for pitching of stables, paths and courts, and for building of dry walls against banks; a valuable species of fencing, much in use in this village, and for mending of roads. This rag is rugged and stubborn, and will not hew to a smooth face; but is very durable: yet, as these strata are shallow and lie deep, large quantities cannot be procured but at considerable expense. Among the blue rags turn up some blocks tinged

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\( \text{To furbed stone is to set it edgewise, contrary to the posture it had in the quarry, says Dr. Plot. Oxford. p. 77. But furbedding does not succeed in our dry walls; neither do we use it so in ovens, though he says it is best for Teynton stone.} \)

\( \text{"Firestone is full of salts, and has no sulphur; must be close grained, and have no interstices. Nothing supports fire like salts; saltstone perishes exposed to wet and "frost." Plot's Staff. p. 152.} \)
with a stain of yellow or rust colour, which seem to be nearly as lasting as the blue; and every now and then balls of a friable substance, like rust of iron, called rust balls.

In Wolmer Forest I see but one sort of stone, called by the workmen sand, or forest-stone. This is generally of the colour of rusty iron, and might probably be worked as iron ore; is very hard and heavy, and of a firm, compact texture, and composed of a small roundish crystalline grit, cemented together by a brown, terrene, ferruginous matter; will not cut without difficulty, nor easily strike fire with steel. Being often found in broad flat pieces, it makes good pavement for paths about houses, never becoming slippery in frost or rain; is excellent for dry walls, and is sometimes used in buildings. In many parts of that waste it lies scattered on the surface of the ground; but is dug on Weaver’s Down, a vast hill on the eastern verge of that forest, where the pits are shallow, and the stratum thin. This stone is imperishable.

From a notion of rendering their work the more elegant, and giving it a finish, masons chip this stone into small fragments about the size of the head of a large nail; and then stick the pieces into the wet mortar along the joints of their freestone walls: this embellishment carries an odd appearance, and has occasioned strangers sometimes to ask us pleasantly, “whether we fastened our walls together with tenpenny nails.”
OF SELBORNE.

LETTER V.

TO THE SAME.

Among the singularities of this place the two rocky hollow lanes, the one to Alton, and the other to the forest, deserve our attention. These roads, running through the malm lands, are, by the traffick of ages, and the fretting of water, worn down through the first stratum of our freestone, and partly through the second; so that they look more like water-courses than roads; and are bedded with naked rag for furlongs together. In many places they are reduced sixteen or eighteen feet beneath the level of the fields; and after floods, and in frosts, exhibit very grotesque and wild appearances, from the tangled roots that are twisted among the strata, and from the torrents rushing down their broken sides; and especially when those cascades are frozen into icicles, hanging in all the fanciful shapes of frost-work. These rugged gloomy scences affright the ladies when they peep down into them from the paths above, and make timid horsemen shudder while they ride along them; but delight the naturalist with their various botany, and particularly with their curious slices with which they abound.

The manor of Selborne, was it strictly looked after, with all it's kindly aspects, and all it's floping coverts, would swarm with game; even now hares, partridges, and pheasants abound; and in old days woodcocks were as plentiful. There are few quails, because they more affect open fields than enclosures; after harvest some few land-rails are seen.

The parish of Selborne, by taking in so much of the forest, is a vast district. Those who tread the bounds are employed part of three
three days in the business, and are of opinion that the outline, in all it's curves and indentings, does not comprise less than thirty miles.

The village stands in a sheltered spot, secured by The Hanger from the strong westerly winds. The air is soft, but rather moist from the effluvia of so many trees; yet perfectly healthy and free from agues.

The quantity of rain that falls on it is very considerable, as may be supposed in so woody and mountainous a district. As my experience in measuring the water is but of short date, I am not qualified to give the mean quantity. I only know that

| From May 1, 1779, to the end of the year there fell | 28 37! |
| From Jan. 1, 1780, to Jan. 1, 1781 | - - 27 32 |
| From Jan. 1, 1781, to Jan. 1, 1782 | - - 30 71 |
| From Jan. 1, 1782, to Jan. 1, 1783 | - - 50 26! |
| From Jan. 1, 1783, to Jan. 1, 1784 | - - 33 71 |
| From Jan. 1, 1784, to Jan. 1, 1785 | - - 33 80 |
| From Jan. 1, 1785, to Jan. 1, 1786 | - - 31 55 |
| From Jan. 1, 1786, to Jan. 1, 1787 | - - 39 57 |

The village of Selborne, and large hamlet of Oakhanger, with the single farms, and many scattered houses along the verge of

8 A very intelligent gentleman assures me (and he speaks from upwards of forty years experience) that the mean rain of any place cannot be ascertained till a person has measured it for a very long period. "If I had only measured the rain," says he, "for the four first years, from 1740 to 1743, I should have said the mean rain at Lyndon was 16 1-hf. inch for the year; if from 1740 to 1750, 18 1-hf. inches. The mean rain before 1763 was 20 1-qr. from 1763 and since 25 1-hf. from 1770 to 1780, 26. If only 1773, 1774 and 1775, had been measured, Lyndon mean rain would have been called 32 inches."
OF SELBORNE.

the forest, contain upwards of six hundred and seventy inhabitants.

\[\text{A STATE of the Parish of SELBORNE, taken October 4, 1783.}\]

The number of tenements or families, 156.

The number of inhabitants in the street is 313; Total 676; near five inhabitants to each tenement.

In the time of the Rev. Gilbert White, Vicar, who died in 1727-8, the number of inhabitants was computed at about 500.

Average of baptisms for 60 years.

<table>
<thead>
<tr>
<th>From 1720 to 1729, both years incluf.</th>
<th>Males 6,9</th>
<th>From 1740 to 1749, incl.</th>
<th>M. 9,2</th>
<th>From 1760 to 1769, incl.</th>
<th>M. 9,1</th>
</tr>
</thead>
<tbody>
<tr>
<td>females 6,0</td>
<td>12,9</td>
<td>females 6,6</td>
<td>15,8</td>
<td>females 8,9</td>
<td>18,0</td>
</tr>
</tbody>
</table>

Total of baptisms of Males 515
Total of baptisms of females 465

AVERAGE OF BURIALS.

<table>
<thead>
<tr>
<th>From 1720 to 1729, both years incluf.</th>
<th>Males 4,8</th>
<th>From 1740 to 1749, incl.</th>
<th>M. 4,6</th>
<th>From 1760 to 1769, incl.</th>
<th>M. 6,9</th>
</tr>
</thead>
<tbody>
<tr>
<td>females 5,1</td>
<td>9,9</td>
<td>females 3,8</td>
<td>8,4</td>
<td>females 6,2</td>
<td>13,4</td>
</tr>
</tbody>
</table>

Total of burials of Males 315
Total of burials of females 325

A TABLE of the Baptisms, Burials, and Marriages, from January 2, 1761, to December 25, 1780, in the Parish of SELBORNE.

<table>
<thead>
<tr>
<th>BAPTISMS</th>
<th>BURIALS</th>
<th>MARR.</th>
<th>BAPTISMS</th>
<th>BURIALS</th>
<th>MARR.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1761</td>
<td>8 10 18</td>
<td>2 4 6</td>
<td>3 4 7 10</td>
<td>4 6 3</td>
<td></td>
</tr>
<tr>
<td>1762</td>
<td>7 8 15</td>
<td>10 14 24</td>
<td>6 10 16</td>
<td>10 13</td>
<td></td>
</tr>
<tr>
<td>1763</td>
<td>8 10 18</td>
<td>3 4 7 5</td>
<td>9 7 6 16</td>
<td>2 4 5 7</td>
<td></td>
</tr>
<tr>
<td>1764</td>
<td>11 9 20</td>
<td>10 8 18</td>
<td>7 5 13</td>
<td>10 8 17</td>
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</tr>
<tr>
<td>1765</td>
<td>12 6 18</td>
<td>9 7 16</td>
<td>6 13 21</td>
<td>7 3 10 5</td>
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<tr>
<td>1766</td>
<td>9 13 22</td>
<td>10 6 16</td>
<td>5 13 20</td>
<td>3 4 5 5</td>
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<tr>
<td>1767</td>
<td>14 5 19</td>
<td>6 5 11</td>
<td>8 13 21</td>
<td>10 14 5</td>
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</tr>
<tr>
<td>1768</td>
<td>7 6 13</td>
<td>2 5 7 2</td>
<td>7 3 10 5</td>
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<td></td>
</tr>
<tr>
<td>1769</td>
<td>9 14 23</td>
<td>6 5 11</td>
<td>7 3 10 5</td>
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<td></td>
</tr>
<tr>
<td>1770</td>
<td>10 13 23</td>
<td>4 7 11</td>
<td>8 9 17</td>
<td>11 4 15 3</td>
<td></td>
</tr>
</tbody>
</table>

During this period of twenty years the births of males exceed those of females -- 10.

The burials of each sex were equal.

And the births exceeded the deaths -- 140.
We abound with poor; many of whom are sober and industrious, and live comfortably in good stone or brick cottages, which are glazed, and have chambers above flairs: mud buildings we have none. Besides the employment from husbandry, the men work in hop gardens, of which we have many; and fell and bark timber. In the spring and summer the women weed the corn; and enjoy a second harvest in September by hop picking. Formerly, in the dead months they availed themselves greatly by spinning wool, for making of barragons, a genteel corded stuff, much in vogue at that time for summer wear; and chiefly manufactured at Alton, a neighbouring town, by some of the people called Quakers: but from circumstances this trade is at an end¹. The inhabitants enjoy a good share of health and longevity; and the parish swarms with children.

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LETTER VI.

TO THE SAME.

Should I omit to describe with some exactness the forest of Wolmer, of which three fifths perhaps lie in this parish, my account of Selborne would be very imperfect, as it is a district abounding with many curious productions, both animal and vegetable; and has often afforded me much entertainment both as a sportsman and as a naturalist.

¹ Since the passage above was written, I am happy in being able to say that the spinning employment is a little revived, to the no small comfort of the industrious housewife.
OF SELBORNE.

The royal forest of Wolmer is a tract of land of about seven miles in length, by two and a half in breadth, running nearly from North to South, and is abutted on, to begin to the South, and so to proceed eastward, by the parishes of Greatham, Lyffe, Rogate, and Trotton, in the county of Sussex; by Bransbot, Hedleigh, and Kingsley. This royalty consists entirely of sand covered with heath and fern; but is somewhat diversified with hills and dales, without having one standing tree in the whole extent. In the bottoms, where the waters stagnate, are many bogs, which formerly abounded with subterraneous trees; though Dr. Plot says positively, that "there never were any fallen trees hidden in the mosses of the southern counties." But he was mistaken: for I myself have seen cottages on the verge of this wild district, whose timbers consisted of a black hard wood, looking like oak, which the owners assured me they procured from the bogs by probing the soil with spits, or some such instruments: but the peat is so much cut out, and the moors have been so well examined, that none has been found of late. Besides the oak, I have also been shewn pieces of fossil-wood of a paler colour, and softer nature, which the inhabitants called fir:

k See his Hist. of Staffordshire.

1 Old people have assured me, that on a winter's morning they have discovered these trees, in the bogs, by the hoar frost, which lay longer over the space where they were concealed, than on the surrounding moors. Nor does this seem to be a fanciful notion, but consistent with true philosophy. Dr. Hales faith, "That the warmth of the earth, at some depth under ground, has an influence in promoting a thaw, as well as the change of the weather from a freezing to a thawing state, is manifest, from this observation, viz. Nov. 29, 1731, a little snow having fallen in the night, it was, by eleven the next morning, mostly melted away on the surface of the earth, except in several places in Bushy-park, where there were drains dug and covered with earth, on which the snow continued to lie, whether those drains were full of water or dry; as also where elm-pipes lay under ground: a plain proof this, that those drains intercepted the warmth of the earth
NATURAL HISTORY

fir: but, upon a nice examination, and trial by fire, I could discover nothing resinous in them; and therefore rather suppose that they were parts of a willow or alder, or some such aquatic tree.

This lonely domain is a very agreeable haunt for many sorts of wild fowls, which not only frequent it in the winter, but breed there in the summer; such as lapwings, snipes, wild-ducks, and, as I have discovered within these few years, teal. Partridges in vast plenty are bred in good seasons on the verge of this forest, into which they love to make excursions: and in particular, in the dry summer of 1740 and 1741, and some years after, they swarmed to such a degree that parties of unreasonable sportsmen killed twenty and sometimes thirty brace in a day.

But there was a nobler species of game in this forest, now extinct, which I have heard old people say abounded much before shooting flying became so common, and that was the heath-cock, black game, or grouse. When I was a little boy I recollect one coming now and then to my father's table. The last pack remembered was killed about thirty-five years ago; and within these ten years one solitary grey hen was sprung by some beagles in beat ing for a hare. The sportsmen cried out, "A hen pheasant;" but a gentleman present, who had often seen grouse in the North of England, assured me that it was a greyhen.

Nor does the loss of our black game prove the only gap in the Fauna Selbourniensis; for another beautiful link in the chain of beings

"earth from ascending from greater depths below them: for the snow lay where the drain had more than four feet depth of earth over it. It continued also to lie on thatch, tiles, and the tops of walls." See Hales's Hematlogics: p. 360. Quere, Might not such observations be reduced to domestic use, by promoting the discovery of old obliterated drains and wells about houses; and in Roman stations and camps lead to the finding of pavements, baths and graves, and other hidden relics of curious antiquity?
OF SELBORNE.

is wanting, I mean the red deer, which toward the beginning of this century amounted to about five hundred head, and made a flately appearance. There is an old keeper, now alive, named Adams, whose great grandfather (mentioned in a perambulation taken in 1635) grandfather, father and self, enjoyed the head keepership of Wolmer forest in succession for more than an hundred years. This person assures me, that his father has often told him, that Queen Anne, as she was journeying on the Portsmouth road, did not think the forest of Wolmer beneath her royal regard. For she came out of the great road at Lippock, which is just by, and, reposing herself on a bank smoothed for that purpose, lying about half a mile to the east of Wolmer-pond, and still called Queen's-bank, saw with great complacency and satisfaction the whole herd of red deer brought by the keepers along the vale before her, consisting then of about five hundred head. A sight this worthy the attention of the greatest sovereign! But he farther adds that, by means of the Wal-tham blacks, or, to use his own expression, as soon as they began blacking, they were reduced to about fifty head, and so continued decreasing till the time of the late Duke of Cumberland. It is now more than thirty years ago that his highness sent down an huntsman, and six yeomen-prickers, in scarlet jackets laced with gold, attended by the flag-hounds; ordering them to take every deer in this forest alive, and to convey them in carts to WindSOR. In the course of the summer they caught every flag, some of which shewed extraordinary diversion: but, in the following winter, when the hinds were also carried off, such fine chases were exhibited as served the country people for matter of talk and wonder for years afterwards. I saw myself one of the yeomen-prickers single out a flag from the herd, and must confess that it was the most curious feat of activity I ever beheld, superior to any thing in Mr. Atley's...
riding-school. The exertions made by the horse and deer much exceeded all my expectations; though the former greatly excelled the latter in speed. When the devoted deer was separated from his companions, they gave him, by their watches, law, as they called it, for twenty minutes; when, sounding their horns, the stop-dogs were permitted to pursue, and a most gallant scene ensued.

LETTER VII.

TO THE SAME.

Though large herds of deer do much harm to the neighbourhood, yet the injury to the morals of the people is of more moment than the loss of their crops. The temptation is irresistible; for most men are sportsmen by constitution: and there is such an inherent spirit for hunting in human nature, as scarce any inhibitions can restrain. Hence, towards the beginning of this century all this country was wild about deer-stealing. Unless he was a hunter, as they affected to call themselves, no young person was allowed to be possessed of manhood or gallantry. The Walsingham blacks at length committed such enormities, that government was forced to interfere with that severe and sanguinary act called the black act, which now comprehends more felonies than any law that ever was framed before. And, therefore, a late bishop of Winchester,

m Statute 9 Geo. I. c. 22.
when urged to re-stock *Walsham-chafe*, refused, from a motive worthy of a prelate, replying that "it had done mischief enough " already."

Our old race of deer-stealers are hardly extinct yet: it was but a little while ago that, over their ale, they used to recount the exploits of their youth; such as watching the pregnant hind to her lair, and, when the calf was dropped, paring it's feet with a penknife to the quick to prevent it's escape, till it was large and fat enough to be killed; the shooting at one of their neighbours with a bullet in a turnip-field by moonshine, mistaking him for a deer; and the losing a dog in the following extraordinary manner:—Some fellows, suspecting that a calf new-fallen was deposited in a certain spot of thick fern, went, with a lurcher, to surprise it; when the parent-hind rushed out of the brake, and, taking a vast spring with all her feet close together, pitched upon the neck of the dog, and broke it short in two.

Another temptation to idleness and sporting was a number of rabbits, which possessed all the hillocks and dry places: but these being inconvenient to the huntsmen, on account of their burrows, when they came to take away the deer, they permitted the country people to destroy them all.

Such forests and waftes, when their allurements to irregularities are removed, are of considerable service to neighbourhoods that verge upon them, by furnishing them with peat and turf for their firing; with fuel for the burning their lime; and with ashes for their grusses; and by maintaining their geese and their flock of young cattle at little or no expense.

The manor-farm of the parish of Greatham has an admitted

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n This chafe remains un-flocked to this day; the bishop was Dr. Headly.
claim, I see, (by an old record taken from the Tower of London) of turning all live stock on the forest, at proper seasons, *bidentibus exceptis*. The reason, I presume, why sheep are excluded, is, because, being such close grazers, they would pick out all the finest grasses, and hinder the deer from thriving.

Though (by statute 4 and 5 W. and Mary) c. 23. "to burn on "any waste, between *Candlemas* and *Midsummer*, any grig, ling, "heath and furze, goss or fern, is punishable with whipping "and confinement in the house of correction;" yet, in this forest, about *March* or *April*, according to the dryness of the season, such vast heath-fires are lighted up, that they often get to a matterless head, and, catching the hedges, have sometimes been communicated to the underwoods, woods, and coppices, where great damage has ensued. The plea for these burnings is, that, when the old coat of heath, &c. is consumed, young will sprout up, and afford much tender brouze for cattle; but, where there is large old furze, the fire, following the roots, consumes the very ground; so that for hundreds of acres nothing is to be seen but smother and defolation, the whole circuit round looking like the cinders of a volcano; and, the soil being quite exhausted, no traces of vegetation are to be found for years. These conflagrations, as they take place usually with a north-east or east wind, much annoy this village with their smoke, and often alarm the country; and, once in particular, I remember that a gentleman, who lives beyond *Andover*, coming to my house, when he got on the downs between that town and *Winchester*, at twenty-five miles

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* For this privilege the owner of that estate used to pay to the king annually seven bushels of oats.

* In *The Holt*, where a full stock of fallow-deer has been kept up till lately, no sheep are admitted to this day.
OF SELBORNE.

distance, was surprized much with smoke and a hot smell of fire; and concluded that Alresford was in flames; but, when he came to that town, he then had apprehensions for the next village, and so on to the end of his journey.

On two of the most conspicuous eminences of this forest stand two arbours or bowers, made of the boughs of oaks: the one called Waldon-lodge, the other Brimstone-lodge: these the keepers renew annually on the feast of St. Barnabas, taking the old materials for a perquisite. The farm called Blackmoor, in this parish, is obliged to find the posts and brush-wood for the former; while the farms at Greatham, in rotation, furnish for the latter; and are all enjoined to cut and deliver the materials at the spot. This custom I mention, because I look upon it to be of very remote antiquity.

LETTER VIII.

TO THE SAME.

On the verge of the forest, as it is now circumscribed, are three considerable lakes, two in Oakbanger, of which I have nothing particular to say; and one called Bin's, or Bean's pond, which is worthy the attention of a naturalist or a sportsman. For, being crowded at the upper end with willows, and with the carex cespitosa, it affords such a safe and pleasing shelter to wild ducks,

Note, In the beginning of the summer 1787 the royal forests of Welmer and Holt were measured by persons sent down by government.
teals, snipes, &c. that they breed there. In the winter this covert
is also frequented by foxes, and sometimes by pheasants; and the
bogs produce many curious plants. [For which consult letter XLII.
to Mr. Barrington.]

By a perambulation of Wolmer forest and The Holt, made in 1635,
and in the eleventh year of Charles the First (which now lies before
me), it appears that the limits of the former are much circum-
scribed. For, to say nothing of the farther side, with which I am
not so well acquainted, the bounds on this side, in old times, came
into Binswood; and extended to the ditch of Ward le ham-park, in
which stands the curious mount called King John's Hill, and Lodge
Hill; and to the verge of Hartley Mauduit, called Mauduit-batch;
comprehending also Short-beath, Oakbanger, and Oakwoods; a large
district, now private property, though once belonging to the royal
domain.

It is remarkable that the term purlove is never once mentioned in
this long roll of parchment. It contains, besides the perambulation,
a rough estimate of the value of the timbers, which were consider-
able, growing at that time in the district of The Holt; and enu-
umerates the officers, superior and inferior, of those joint forests,
for the time being, and their oftensible fees and perquisites. In
those days, as at present, there were hardly any trees in Wolmer
forest.

Within the present limits of the forest are three considerable
lakes, Hogmer, Cranmer, and Wolmer; all of which are stocked with
carp, tench, eels, and perch: but the fish do not thrive well,
because the water is hungry, and the bottoms are a naked sand.

A circumstance respecting these ponds, though by no means
peculiar to them, I cannot pass over in silence; and that is, that
instinct by which in summer all the kine, whether oxen, cows,
calves
OF SELBORNE.

calves, or heifers, retire constantly to the water during the hotter hours; where, being more exempt from flies, and inhaling the coolness of that element, some belly deep, and some only to mid-leg, they ruminate and solace themselves from about ten in the morning till four in the afternoon, and then return to their feeding. During this great proportion of the day they drop much dung, in which insects nestle; and so supply food for the fish, which would be poorly subsisted but from this contingency. Thus Nature, who is a great economist, converts the recreation of one animal to the support of another! Thomson, who was a nice observer of natural occurrences, did not let this pleasing circumstance escape him. He says, in his Summer,

"A various group the herds and flocks compose;

Some ruminating lie; while others stand

Half in the flood, and, often bending, sip

The circling surface."

Wolmer-pond, so called, I suppose, for eminence sake, is a vast lake for this part of the world, containing, in it's whole circumference, 2646 yards, or very near a mile and an half. The length of the north-west and opposite side is about 704 yards, and the breadth of the south-west end about 456 yards. This measurement, which I caused to be made with good exactness, gives an area of about sixty-six acres, exclusive of a large irregular arm at the north-east corner, which we did not take into the reckoning.

On the face of this expanse of waters, and perfectly secure from fowlers, lie all day long, in the winter season, vast flocks of ducks, teals, and wigeons, of various denominations; where they preen and solace, and rest themselves, till towards sun-set, when they issue forth in little parties (for in their natural state they are all birds
birds of the night) to feed in the brooks and meadows; returning again with the dawn of the morning. Had this lake an arm or two more, and were it planted round with thick covert (for now it is perfectly naked), it might make a valuable decoy.

Yet neither it’s extent, nor the clearness of it’s water, nor the resort of various and curious fowls, nor it’s picturesque groups of cattle, can render this meer so remarkable as the great quantity of coins that were found in it’s bed about forty years ago. But, as such discoveries more properly belong to the antiquities of this place, I shall suppress all particulars for the present, till I enter professedly on my series of letters respecting the more remote history of this village and district.

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**LETTER IX.**

**TO THE SAME.**

By way of supplement, I shall trouble you once more on this subject, to inform you that Wolmer, with her sister forest Ayles Holt, alias Alice Holt, as it is called in old records, is held by grant from the crown for a term of years.

The grantees that the author remembers are Brigadier-General Emanuel Scroope Hawe, and his lady, Ruperta, who was a natural daughter of Prince Rupert by Margaret Hughs; a Mr. Mordaunt, of

"In Rot. Inquisit. d. flatu forest. in Steccar. 36. Ed. 3. it is called Aifboll."

OF SELBORNE.

the Peterborough family, who married a dowager Lady Pembroke; Henry Bilson Legge and lady; and now Lord Stawel, their son.

The lady of General Howe lived to an advanced age, long surviving her husband; and, at her death, left behind her many curious pieces of mechanism of her father's constructing, who was a distinguished mechanic and artist, as well as warrior; and, among the rest, a very complicated clock, lately in possession of Mr. Elmer, the celebrated game-painter at Farnham, in the county of Surrey.

Though these two forests are only parted by a narrow range of enclosures, yet no two foils can be more different: for The Holt consists of a strong loam, of a miry nature, carrying a good turf, and abounding with oaks that grow to be large timber; while Wolmer is nothing but a hungry, sandy, barren waste.

The former, being all in the parish of Binsted, is about two miles in extent from north to south, and near as much from east to west; and contains within it many woodlands and lawns, and the great lodge where the grantees reside; and a smaller lodge called Goose-green; and is abutted on by the parishes of Kingsley, Frensham, Farnham, and Bentley; all of which have right of common.

One thing is remarkable; that, though The Holt has been of old well stocked with fallow-deer, unrestrained by any pales or fences more than a common hedge, yet they were never seen within the limits of Wolmer; nor were the red deer of Wolmer ever known to haunt the thickets or glades of The Holt.

At present the deer of The Holt are much thinned and reduced by the night-hunters, who perpetually harass them in spite of the

* This prince was the inventor of mezzotinto.
efforts of numerous keepers, and the severe penalties that have been put in force against them as often as they have been detected, and rendered liable to the lash of the law. Neither fines nor imprisonments can deter them: so impossible is it to extinguish the spirit of sporting, which seems to be inherent in human nature.

General Howe turned out some German wild boars and sows in his forests, to the great terror of the neighbourhood; and, at one time, a wild bull or buffalo: but the country rose upon them and destroyed them.

A very large fall of timber, consisting of about one thousand oaks, has been cut this spring (viz. 1784) in The Holt forest; one fifth of which, it is said, belongs to the grantee, Lord Stawel. He lays claim also to the lop and top: but the poor of the parishes of Binsted and Fringham, Bentley and Kingsley, assert that it belongs to them; and, assembling in a riotous manner, have actually taken it all away. One man, who keeps a team, has carried home, for his share, forty stacks of wood. Forty-five of these people his Lordship has served with actions. These trees, which were very sound, and in high perfection, were winter-cut, viz. in February and March, before the bark would run. In old times The Holt was estimated to be eighteen miles, computed measure, from water-carriage, viz. from the town of Chertsey, on the Thames; but now it is not half that distance, since the Wey is made navigable up to the town of Godalming in the county of Surrey.
OF SELBORNE.

LETTER X.

TO THE SAME.

August 4, 1767.

It has been my misfortune never to have had any neighbours whose studies have led them towards the pursuit of natural knowledge: so that, for want of a companion to quicken my industry and sharpen my attention, I have made but slender progress in a kind of information to which I have been attached from my childhood.

As to swifts (hirundines rusticae) being found in a torpid state during the winter in the isle of Wight, or any part of this country, I never heard any such account worth attending to. But a clergyman, of an inquisitive turn, assures me, that, when he was a great boy, some workmen, in pulling down the battlements of a church tower early in the spring, found two or three swifts (hirundines apodes) among the rubbish, which were, at first appearance, dead; but, on being carried toward the fire, revived. He told me that, out of his great care to preserve them, he put them in a paper-bag, and hung them by the kitchen fire, where they were suffocated.

Another intelligent person has informed me that, while he was a schoolboy at Brightelmstone, in Sussex, a great fragment of the chalk-cliff fell down one stormy winter on the beach; and that many people found swifts among the rubbish: but, on my questioning him whether he saw any of those birds himself; to my no small disappointment, he answered me in the negative; but that others assured him they did.

E. 2

Young
Young broods of *swallows* began to appear this year on July the eleventh, and young *martins* (*hirundines urbicae*) were then fledged in their nests. Both species will breed again once. For I see by my *fauna* of last year, that young broods came forth so late as September the eighteenth. Are not these late hatchings more in favour of hiding than migration? Nay, some young martins remained in their nests last year so late as September the twenty-ninth; and yet they totally disappeared with us by the fifth of October.

How strange is it that the *swift*, which seems to live exactly the same life with the *swallow* and *house-martin*, should leave us before the middle of *August* invariably! while the latter stay often till the middle of *October*; and once I saw numbers of house-martins on the seventh of *November*. The martins and red-wing *fieldfares* were flying in sight together; an uncommon assemblage of summer and winter-birds!

A little yellow bird (it is either a species of the *alauda trivialis*, or rather perhaps of the *motacilla trochilus*) still continues to make a fibulous shivering noise in the tops of tall woods. The *floparola* of *Ray* (for which we have as yet no name in these parts) is called, in your *Zoology*, the *fly-catcher*. There is one circumstance characteristic of this bird, which seems to have escaped observation, and that is, it takes it's stand on the top of some stake or post, from whence it springs forth on it's prey, catching a fly in the air, and hardly ever touching the ground, but returning still to the same stand for many times together.

I perceive there are more than one species of the *motacilla trochilus*: Mr. *Derham* supposes, in *Ray's Philof. Letters*, that he has discovered three. In these there is again an instance of some very common birds that have as yet no *English* name.
OF SELBORNE.

Mr. Stillingsfleet makes a question whether the *black-cap* (*motacilla atricapilla*) be a bird of passage or not: I think there is no doubt of it: for, in April, in the first fine weather, they come trooping, all at once, into these parts, but are never seen in the winter. They are delicate songsters.

Numbers of *suipes* breed every summer in some moory ground on the verge of this parish. It is very amusing to see the cock bird on wing at that time, and to hear his piping and humming notes.

I have had no opportunity yet of procuring any of those mice which I mentioned to you in town. The person that brought me the last says they are plenty in harvest, at which time I will take care to get more; and will endeavour to put the matter out of doubt, whether it be a non-descript species or not.

I suspect much there may be two species of water-rats. *Ray* says, and *Linnaeus* after him, that the water-rat is web-footed behind. Now I have discovered a rat on the banks of our little stream that is not web-footed, and yet is an excellent swimmer and diver: it answers exactly to the *mus amphibius* of *Linnaeus* (See *Syst. Nat.*) which he says "*nata in fossis & urinatur."* I should be glad to procure one "*plantis palmatis.*" *Linnaeus* seems to be in a puzzle about his *mus amphibius,* and to doubt whether it differs from his *mus terrestris;* which if it be, as he allows, the "*mus agrestis capite grandi brachyuros*" of *Ray,* is widely different from the water-rat, both in size, make, and manner of life.

As to the *falco,* which I mentioned in town, I shall take the liberty to send it down to you into *Wales;* presuming on your candour, that you will excuse me if it should appear as familiar to you as it is strange to me. Though mutilated "*qualem dices... antebac suiffe, tales cum sint reliquiae!"
NATURAL HISTORY

It haunted a marshy piece of ground in quest of wild-ducks and snipes: but, when it was shot, had just knocked down a rook, which it was tearing in pieces. I cannot make it answer to any of our English hawks; neither could I find any like it at the curious exhibition of stuffed birds in Spring-Gardens. I found it nailed up at the end of a barn, which is the countryman's museum.

The parish I live in is a very abrupt, uneven country, full of hills and woods, and therefore full of birds.

LETTER XI.

TO THE SAME.

SELBORNE, September 9, 1767.

It will not be without impatience that I shall wait for your thoughts with regard to the falco; as to its weight, breadth, &c. I wish I had set them down at the time: but, to the best of my remembrance, it weighed two pounds and eight ounces, and measured, from wing to wing, thirty-eight inches. Its cere and feet were yellow, and the circle of it's eyelids a bright yellow. As it had been killed some days, and the eyes were sunk, I could make no good observation on the colour of the pupils and the irides.

The most unusual birds I ever observed in these parts were a pair of hoopoes (upupa), which came several years ago in the summer, and frequented an ornamented piece of ground, which joins to my garden, for some weeks. They used to march about in a stately manner, feeding in the walks, many times in the day; and seemed disposed
disposed to breed in my outlet; but were frightened and perpecuted by idle boys, who would never let them be at rest.

Three gross-beaks (loxia coccothrañles) appeared some years ago in my fields, in the winter; one of which I shot: since that, now and then one is occasionally seen in the same dead season.

A crofs-bill (loxia curvirojira) was killed laft year in this neighbourhoud.

Our streams, which are small, and rise only at the end of the village, yield nothing but the bull’s-head or miller’s-thumb (gobius fluviatilis capitatus), the trout (trutta fluviatilis), the eel (anguilla), the lampern (lampetra parva et fluviatilis), and the fickle-back (pifciculus aculeatus).

We are twenty miles from the sea, and almost as many from a great river, and therefore see but little of sea-birds. As to wild fowls, we have a few teems of ducks bred in the moors where the snipes breed; and multitudes of widgeons and teals in hard weather frequent our lakes in the forest.

Having some acquaintance with a tame brown owl, I find that it calls up the fur of mice, and the feathers of birds in pellets, after the manner of hawks: when full, like a dog, it hides what it cannot eat.

The young of the barn-owl are not easily raised, as they want a constant supply of fresh mice: whereas the young of the brown owl will eat indiscriminately all that is brought; snails, rats, kittens, puppies, magpies, and any kind of carrion or offal.

The house-martins have eggs still, and squab-young. The laft swift I observed was about the twenty-first of August; it was a straggler.

Red-flurts, fly-catchers, white-throats, and reguli non criñati, still appear; but I have seen no black-caps lately.

I forgot
I forgot to mention that I once saw, in Christ Church college quadrangle in Oxford, on a very funny warm morning, a house martin flying about, and settling on the parapets, so late as the twentieth of November.

At present I know only two species of bats, the common *vespertilio murinus* and the *vespertilio auribus*.

I was much entertained last summer with a tame bat, which would take flies out of a person's hand. If you gave it any thing to eat, it brought it's wings round before the mouth, hovering and hiding it's head in the manner of birds of prey when they feed. The adroitness it shewed in fleeing off the wings of the flies, which were always rejected, was worthy of observation, and pleased me much. Insects seemed to be most acceptable, though it did not refuse raw flesh when offered: so that the notion, that bats go down chimneys and gnaw men's bacon, seems no improbable story. While I amused myself with this wonderful quadruped, I saw it several times confute the vulgar opinion, that bats when down on a flat surface cannot get on the wing again, by rising with great ease from the floor. It ran, I observed, with more dispatch than I was aware of; but in a most ridiculous and grotesque manner.

Bats drink on the wing, like swallows, by sipping the surface, as they play over pools and streams. They love to frequent waters, not only for the sake of drinking, but on account of insects, which are found over them in the greatest plenty. As I was going, some years ago, pretty late, in a boat from Richmond to Sunbury, on a warm summer's evening, I think I saw myriads of bats between the two places: the air swarmed with them all along the Thames, so that hundreds were in sight at a time.

I am, &c.

LETTER
OF SELBORNE.

LETTER XII.

TO THE SAME.

SIR, November 4, 1767.

It gave me no small satisfaction to hear that the *falco* turned out an uncommon one. I must confess I should have been better pleased to have heard that I had sent you a bird that you had never seen before; but that, I find, would be a difficult task.

I have procured some of the mice mentioned in my former letters, a young one and a female with young, both of which I have preserved in brandy. From the colour, shape, size, and manner of nestling, I make no doubt but that the species is nondescript. They are much smaller, and more slender, than the *mus domesticus medius* of Ray; and have more of the squirrel or dormouse colour: their belly is white; a straight line along their sides divides the shades of their back and belly. They never enter into houses; are carried into ricks and barns with the sheaves; abound in harvest; and build their nests amidst the straws of the corn above the ground, and sometimes in thistles. They breed as many as eight at a litter, in a little round nest composed of the blades of grass or wheat.

One of these nests I procured this autumn, most artificially platted, and composed of the blades of wheat; perfectly round, and about the size of a cricket-ball; with the aperture so ingeniously closed, that there was no discovering to what part it belonged.

*This hawk proved to be the *falco peregrinus*; a variety.*
belonged. It was so compact and well filled, that it would roll across the table without being discomposed, though it contained eight little mice that were naked and blind. As this nest was perfectly full, how could the dam come at her litter respectively so as to administer a teat to each? perhaps the opens different places for that purpose, adjusting them again when the business is over: but she could not possibly be contained herself in the ball with her young, which moreover would be daily increasing in bulk. This wonderful procreant cradle, an elegant instance of the efforts of instinct, was found in a wheat-field suspended in the head of a thistle.

A gentleman, curious in birds, wrote me word that his servant had shot one last January, in that severe weather, which he believed would puzzle me. I called to see it this summer, not knowing what to expect: but, the moment I took it in hand, I pronounced it the male *garrulus bobemicus* or German silk-tail, from the five peculiar crimson tags or points which it carries at the ends of five of the short remiges. It cannot, I suppose, with any propriety, be called an *English* bird: and yet I see, by Ray's *Philosoph. Letters*, that great flocks of them, feeding on haws, appeared in this kingdom in the winter of 1685.

The mention of haws puts me in mind that there is a total failure of that wild fruit, so conducive to the support of many of the winged nation. For the same severe weather, late in the spring, which cut off all the produce of the more tender and curious trees, destroyed also that of the more hardy and common.

Some birds, haunting with the mistel-thrushes, and feeding on the berries of the yew-tree, which answered to the description of the *merula torquata* or ring-ouzel, were lately seen in this neighbourhood.
bourhood. I employed some people to procure me a specimen, but without success. See Letter VIII.

Query—Might not Canary birds be naturalized to this climate, provided their eggs were put, in the spring, into the nests of some of their congenerous, as goldfinches, greenfinches, &c.? Before winter perhaps they might be hardened, and able to shift for themselves.

About ten years ago I used to spend some weeks yearly at Sunbury, which is one of those pleasant villages lying on the Thames, near Hampton-court. In the autumn, I could not help being much amused with those myriads of the swallow kind which assemble in those parts. But what struck me most was, that, from the time they began to congregate, forsaking the chimneys and houses, they roofed every night in the osier-beds of the aits of that river. Now this resorting towards that element, at that season of the year, seems to give some countenance to the northern opinion (strange as it is) of their retiring under water. A Swedish naturalist is so much persuaded of that fact, that he talks, in his calendar of Flora, as familiarly of the swallow's going under water in the beginning of September, as he would of his poultry going to roost a little before sunset.

An observing gentleman in London writes me word that he saw an house-martin, on the twenty-third of last October, flying in and out of it's nest in the Borough. And I myself, on the twenty-ninth of last October (as I was travelling through Oxford), saw four or five swallows hovering round and settling on the roof of the county-hospital.

Now is it likely that these poor little birds (which perhaps had not been hatched but a few weeks) should, at that late season of the
year, and from so midland a county, attempt a voyage to Goree or Senegal, almost as far as the equator?  
I acquiesce entirely in your opinion—that, though most of the swallow kind may migrate, yet that some do stay behind and hide with us during the winter.

As to the short-winged soft-billed birds, which come trooping in such numbers in the spring, I am at a loss even what to suspect about them. I watched them narrowly this year, and saw them abound till about Michaelmas, when they appeared no longer. Subsist they cannot openly among us, and yet elude the eyes of the inquisitive: and, as to their hiding, no man pretends to have found any of them in a torpid state in the winter. But with regard to their migration, what difficulties attend that supposition! that such feeble bad fliers (who the summer long never flit but from hedge to hedge) should be able to traverse vast seas and continents in order to enjoy milder seasons amidst the regions of Africa!

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LETTER XIII.

TO THE SAME.

SIR,

Selborne, Jan. 22, 1768.

As in one of your former letters you expressed the more satisfaction from my correspondence on account of my living in the most southerly county; so now I may return the compliment, and expect to have my curiosity gratified by your living much more to the North.

* See Adanson's Voyage to Senegal.
OF SELBORNE.

For many years past I have observed that towards Christmas vast flocks of chaffinches have appeared in the fields; many more, I used to think, than could be hatched in any one neighbourhood. But, when I came to observe them more narrowly, I was amazed to find that they seemed to me to be almost all hens. I communicated my suspicions to some intelligent neighbours, who, after taking pains about the matter, declared that they also thought them all mostly females; at least fifty to one. This extraordinary occurrence brought to my mind the remark of Linnaeus; that "before winter all their hen chaffinches migrate through Holland into Italy." Now I want to know, from some curious person in the north, whether there are any large flocks of these finches with them in the winter, and of which sex they mostly consist? For, from such intelligence, one might be able to judge whether our female flocks migrate from the other end of the island, or whether they come over to us from the continent.

We have, in the winter, vast flocks of the common linnets; more, I think, than can be bred in any one district. These, I observe, when the spring advances, assemble on some tree in the sunshine, and join all in a gentle sort of chirping, as if they were about to break up their winter quarters and betake themselves to their proper summer homes. It is well known, at least, that the swallows and the fieldfares do congregate with a gentle twittering before they make their respective departure.

You may depend on it that the bunting, emberiza miliaria, does not leave this county in the winter. In January 1767 I saw several dozen of them, in the midst of a severe frost, among the bushes on the downs near Andover: in our woodland enclosed district it is a rare bird.

Wagtails,
Wagtails, both white and yellow, are with us all the winter. Quails crowd to our southern coast, and are often killed in numbers by people that go on purpose.

Mr. Stillingfleet, in his Tracts, says that “if the wheatear (enanthe) does not quit England, it certainly shifts places; for about harvest they are not to be found, where there was before great plenty of them.” This well accounts for the vast quantities that are caught about that time on the south downs near Lewes, where they are esteemed a delicacy. There have been shepherds, I have been credibly informed, that have made many pounds in a season by catching them in traps. And though such multitudes are taken, I never saw (and I am well acquainted with those parts) above two or three at a time: for they are never gregarious. They may perhaps migrate in general; and, for that purpose, draw towards the coast of Sussex in autumn: but that they do not all withdraw I am sure; because I see a few stragglers in many counties, at all times of the year, especially about warrens and stone quarries.

I have no acquaintance, at present, among the gentlemen of the navy: but have written to a friend, who was a sea-chaplain in the late war, desiring him to look into his minutes, with respect to birds that settled on their rigging during their voyage up or down the channel. What Hasselquist says on that subject is remarkable. there were little short-winged birds frequently coming on board his ship all the way from our channel quite up to the Levant, especially before equably weather.

What you suggest, with regard to Spain, is highly probable. The winters of Andalusia are so mild, that, in all likelihood, the soft-billed birds that leave us at that season may find insects sufficient to support them there.
OF SELBORNE.

Some young man, possessed of fortune, health, and leisure, should make an autumnal voyage into that kingdom; and should spend a year there, investigating the natural history of that vast country. Mr. Willughby\(^a\) passed through that kingdom on such an errand; but he seems to have skirted along in a superficial manner and an ill humour, being much disgusted at the rude dissolute manners of the people.

I have no friend left now at Sunbury to apply to about the swallows roosting on the aits of the Thames: nor can I hear any more about those birds which I suspected were *merula torquata*.

As to the small mice, I have farther to remark, that though they hang their nests for breeding up amidst the straws of the standing corn, above the ground; yet I find that, in the winter, they burrow deep in the earth, and make warm beds of grass: but their grand rendezvous seems to be in corn-ricks, into which they are carried at harvest. A neighbour housed an oat-rick lately, under the thatch of which were assembled near an hundred, most of which were taken; and some I saw. I measured them; and found that, from nose to tail, they were just two inches and a quarter, and their tails just two inches long. Two of them, in a scale, weighed down just one copper halfpenny, which is about the third of an ounce avoirdupois: so that I suppose they are the smallest quadrupeds in this island. A full-grown *mus medius domesticus* weighs, I find, one ounce lumping weight, which is more than six times as much as the mouse above; and measures from nose to rump four inches and a quarter, and the same in it’s tail. We have had a very severe frost and deep snow this month. My thermometer was one day fourteen degrees and

\(^a\) See Ray’s Travels, p. 466.
an half below the freezing point, within doors. The tender evergreens were injured pretty much. It was very providential that the air was still, and the ground well covered with snow, else vegetation in general must have suffered prodigiously. There is reason to believe that some days were more severe than any since the year 1739-40.

I am, &c. &c.

LETTER XIV.

TO THE SAME.

DEAR SIR,

Selborne, March 12, 1768.

If some curious gentleman would procure the head of a fallow-deer, and have it dissected, he would find it furnished with two spiracula, or breathing-places, besides the nostrils; probably analogous to the punäta lacrimalia in the human head. When deer are thirsty they plunge their noses, like some horses, very deep under water, while in the act of drinking, and continue them in that situation for a considerable time: but, to obviate any inconvenience, they can open two vents, one at the inner corner of each eye, having a communication with the nose. Here seems to be an extraordinary provision of nature worthy our attention; and which has not, that I know of, been noticed by any naturalist. For it looks as if these creatures would not be suffocated, though both their mouths and nostrils were stopped. This curious formation of the head may be of singular service to beasts of chase, by affording
affording them free respiration: and no doubt these additional nostrils are thrown open when they are hard run. Mr. Ray observed that, at Malta, the owners slit up the nostrils of such asses as were hard worked: for they, being naturally strait or small, did not admit air sufficient to serve them when they travelled, or laboured, in that hot climate. And we know that grooms, and gentlemen of the turf, think large nostrils necessary, and a perfection, in hunters and running horses.

Oppian, the Greek poet, by the following line, seems to have had some notion that flags have four spiracula:

"Τετράδυμοι ρίνες, πιστευείτε πεντείς διακόλου."  
"Quadrifidæ nares, quadruplices ad respirationem canales."  

Writers, copying from one another, make Aristotle say that goats breathe at their ears; whereas he affirms just the contrary:—"Αλκμαῖων γὰρ οὐκ ἀληθὶν λέγει, Φαμέως οὐκ ἀπεινεν τὰς αἰγὰς κατὰ τὰ ὤτα."  "Alemone does not advance what is true, when he avers that goats breathe through their ears."—History of Animals. Book I. chap. xi.

* In answer to this account, Mr. Pennant sent me the following curious and pertinent reply. "I was much surprized to find in the antelope something analogous to what you mention as so remarkable in deer. This animal also has a long slit beneath each eye, which can be opened and shut at pleasure. On holding an orange to one, the creature made as much use of these orifices as of his nostrils, applying them to the fruit, and seeming to smell it through them."
Some intelligent country people have a notion that we have, in these parts, a species of the genus muselinum, besides the weasel, stoat, ferret, and polecat; a little reddish beast, not much bigger than a field mouse, but much longer, which they call a cane. This piece of intelligence can be little depended on; but farther inquiry may be made.

A gentleman in this neighbourhood had two milkwhite rooks in one nest. A booby of a carter, finding them before they were able to fly, threw them down and destroyed them, to the regret of the owner, who would have been glad to have preserved such a curiosity in his rookery. I saw the birds myself nailed against the end of a barn, and was surprized to find that their bills, legs, feet, and claws were milkwhite.

A shepherd saw, as he thought, some white larks on a down above my house this winter: were not these the emberiza nivalis, the snow-flake of the Brit. Zool.? No doubt they were.

A few years ago I saw a cock bullfinch in a cage, which had been caught in the fields after it was come to its full colours. In about a year it began to look dingy; and, blackening every succeeding year, it became coal-black at the end of four. Its chief food was hempseed. Such influence has food on the colour of animals! The pied and mottled colours of domesticated animals are supposed to be owing to high, various, and unusual food.
OF SELBORNE.

I had remarked, for years, that the root of the cuckoo-pint (arum) was frequently scratched out of the dry banks of hedges, and eaten in severe snowy weather. After observing, with some exactness, myself, and getting others to do the same, we found it was the thrush kind that searched it out. The root of the arum is remarkably warm and pungent.

Our flocks of female chaffinches have not yet forsaken us. The blackbirds and thrushes are very much thinned down by that fierce weather in January.

In the middle of February I discovered, in my tall hedges, a little bird that raised my curiosity: it was of that yellow-green colour that belongs to the sylvicaria kind, and, I think, was soft-billed. It was no parus; and was too long and too big for the golden-crowned wren, appearing most like the largest willow-wren. It hung sometimes with its back downwards, but never continuing one moment in the same place. I shot at it, but it was so defultory that I missed my aim.

I wonder that the stone curlew, charadrius oedicnemus, should be mentioned by the writers as a rare bird: it abounds in all the campaign parts of Hampshire and Sussex, and breeds, I think, all the summer, having young ones, I know, very late in the autumn. Already they begin clamouring in the evening. They cannot, I think, with any propriety, be called, as they are by Mr. Ray, "circa aquas versantes;" for with us, by day at least, they haunt only the most dry, open, upland fields and sheep walks, far removed from water: what they may do in the night I cannot say. Worms are their usual food, but they also eat toads and frogs.

I can shew you some good specimens of my new mice. Linnaeus perhaps would call the species mus minimus.
NATURAL HISTORY

LETTER XVI.

TO THE SAME.

DEAR SIR,

Selborne, April 18, 1768.

The history of the stone curlew, *Charadrius oedicnemus*, is as follows. It lays its eggs, usually two, never more than three, on the bare ground, without any nest, in the field; so that the countryman, in stirring his fallows, often destroys them. The young run immediately from the egg like partridges, &c. and are withdrawn to some flinty field by the dam, where they sculk among the stones, which are their best security; for their feathers are so exactly of the colour of our grey spotted flints, that the most exact observer, unless he catches the eye of the young bird, may be eluded. The eggs are short and round, of a dirty white, spotted with dark bloody blotches. Though I might not be able, just when I pleased, to procure you a bird, yet I could shew you them almost any day; and any evening you may hear them round the village, for they make a clamour which may be heard a mile. *Oedicnemus* is a most apt and expressive name for them, since their legs seem swoln like those of a gouty man. After harvest I have shot them before the pointers in turnip-fields.

I make no doubt but there are three species of the *willow-wrens*: two I know perfectly; but have not been able yet to procure the third. No two birds can differ more in their notes, and that constantly, than those two that I am acquainted with; for the one has a joyous, easy, laughing note; the other a harsh loud chirp.
The former is every way larger, and three quarters of an inch longer, and weighs two drams and an half; while the latter weighs but two: so the songster is one fifth heavier than the chirper. The chirper (being the first summer-bird of passage that is heard, the wryneck sometimes excepted) begins his two notes in the middle of March, and continues them through the spring and summer till the end of August, as appears by my journals. The legs of the larger of these two are flesh-coloured; of the less, black.

The grasshopper-lark began his fibulous note in my fields last Saturday. Nothing can be more amusing than the whisper of this little bird, which seems to be close by though at an hundred yards distance; and, when close at your ear, is scarce any louder than when a great way off. Had I not been a little acquainted with insects, and known that the grasshopper kind is not yet hatched, I should have hardly believed but that it had been a locust whispering in the bushes. The country people laugh when you tell them that it is the note of a bird. It is a most artful creature, sculking in the thickest part of a bush; and will sing at a yard distance, provided it be concealed. I was obliged to get a person to go on the other side of the hedge where it haunted; and then it would run, creeping like a mouse, before us for an hundred yards together, through the bottom of the thorns; yet it would not come into fair fight: but in a morning early, and when undisturbed, it sings on the top of a twig, gaping and shivering with it’s wings. Mr. Ray himself had no knowledge of this bird, but received his account from Mr. Johnson, who apparently confounds it with the reguli non cribati, from which it is very distinct. See Ray’s Philos. Letters, p. 108.

The
The fly-catcher (*foparola*) has not yet appeared: it usually breeds in my vine. The *redstart* begins to sing: it’s note is short and imperfect, but is continued till about the middle of June. The *willow-wrens* (the smaller sort) are horrid pests in a garden, destroying the peas, cherries, currants, &c.; and are so tame that a gun will not scare them.

A LIST of the Summer Birds of Passage discovered in this neighbourhood, ranged somewhat in the Order in which they appear:

<table>
<thead>
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<th>Linnæi Nomina</th>
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<tr>
<td>Motacilla trochilus</td>
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<td>Jynx torquilla</td>
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<td>Hirundo rustica</td>
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<td>Hirundo urbica</td>
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<td>Hirundo riparia</td>
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<td>Cuculus canorus</td>
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<td>Motacilla luscinia</td>
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<td>Motacilla atricapilla</td>
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<td>Motacilla Sylvia</td>
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<td>Motacilla trochilus</td>
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<td>Hirundo apus</td>
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<tr>
<td>Charadrius oedicnemus</td>
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<td>Turtur aldrovandi</td>
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<td>Alauda trivialis</td>
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<td>Rallus crex</td>
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<td>Motacilla trochilus</td>
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<td>Motacilla phœnicurus</td>
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<tr>
<td>Caprimulgus europæus</td>
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<tr>
<td>Muscicapa grifola</td>
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OF SELBORNE.

My countrymen talk much of a bird that makes a clatter with it's bill against a dead bough, or some old pales, calling it a jarbird. I procured one to be shot in the very fact; it proved to be the *Sitta europaea* (the nuthatch.) Mr. Ray says that the less spotted *woodpecker* does the same. This noise may be heard a furlong or more.

Now is the only time to ascertain the short-winged summer birds; for, when the leaf is out, there is no making any remarks on such a restless tribe; and, when once the young begin to appear, it is all confusion: there is no distinction of genus, species, or sex.

In breeding-time snipes play over the moors, piping and humming: they always hum as they are descending. Is not their hum ventriloquous like that of the turkey? Some suspect it is made by their wings.

This morning I saw the golden-crowned wren, whose crown glitters like burnished gold. It often hangs like a titmouse, with its back downwards.

Yours, &c. &c.

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LETTER XVII.

TO THE SAME.

DEAR SIR,

Selborne, June 18, 1768.

On Wednesday last arrived your agreeable letter of June the 10th. It gives me great satisfaction to find that you pursue these studies still with such vigour, and are in such forwardness with regard to reptiles and fishes.

The
The reptiles, few as they are, I am not acquainted with, so well as I could with, with regard to their natural history. There is a degree of dubiouness and obscurity attending the propagation of this class of animals, something analagous to that of the cryptogamia in the sexual sytem of plants; and the case is the same with regard to some of the fishes; as the eel, &c.

The method in which toads procreate and bring forth seems to be very much in the dark. Some authors say that they are viviparous: and yet Ray classifies them among his oviparous animals; and is silent with regard to the manner of their bringing forth. Perhaps they may be ἐνα μὲν ὄστισιν, ἦν ἐν ζωότητι, as is known to be the case with the viper.

The copulation of frogs (or at least the appearance of it; for Swammerdam proves that the male has no penis intrans) is notorious to everyone: because we see them sticking upon each other's backs for a month together in the spring: and yet I never saw, or read, of toads being observed in the same situation. It is strange that the matter with regard to the venom of toads has not been yet settled. That they are not noxious to some animals is plain: for ducks, buzzards, owls, stone curlews, and snakes, eat them, to my knowledge, with impunity. And I well remember the time, but was not eye-witnes to the fact (though numbers of persons were) when a quack, at this village, ate a toad to make the country-people stare; afterwards he drank oil.

I have been informed also, from undoubted authority, that some ladies (ladies you will say of peculiar taste) took a fancy to a toad, which they nourished summer after summer, for many years, till he grew to a monstrous size, with the maggots which turn to flesh flies. The reptile used to come forth every evening from an hole under the garden-steps; and was taken up, after supper, on the table.
table to be fed. But at last a tame raven, kenning him as he put forth his head, gave him such a severe stroke with his horny beak as put out one eye. After this accident the creature languished for some time and died.

I need not remind a gentleman of your extensive reading of the excellent account there is from Mr. Derham, in Ray's Wisdom of God in the Creation (p. 365), concerning the migration of frogs from their breeding ponds. In this account he at once subverts that foolish opinion of their dropping from the clouds in rain; shewing that it is from the grateful coolness and moisture of those flowers that they are tempted to set out on their travels, which they defer till those fall. Frogs are as yet in their tadpole state; but, in a few weeks, our lanes, paths, fields, will swarm for a few days with myriads of those emigrants, no larger than my little finger nail. Swammerdam gives a most accurate account of the method and situation in which the male impregnates the spawn of the female. How wonderful is the œconomy of Providence with regard to the limbs of so vile a reptile! While it is an aquatic it has a fish-like tail, and no legs: as soon as the legs sprout, the tail drops off as useless, and the animal betakes itself to the land!

Merret, I trust, is widely mistaken when he advances that the rana arboria is an English reptile; it abounds in Germany and Switzerland.

It is to be remembered that the salamandra aquatica of Ray (the water-newt or eft) will frequently bite at the angler's bait, and is often caught on his hook. I used to take it for granted that the salamandra aquatica was hatched, lived, and died, in the water. But John Ellis, Esq. F. R. S. (the coralline Ellis) afferts, in a letter to the Royal Society, dated June the 5th, 1766, in his ac-
count of the mud inguana, an amphibious bipes from South Carolina; that the water-eft, or newt, is only the larva of the land-eft, as tadpoles are of frogs. Left I should be suspected to misunderstand his meaning, I shall give it in his own words. Speaking of the opercula or coverings to the gills of the mud inguana, he proceeds to say that “The form of these pennated coverings approach very near to what I have some time ago observed in the larva or aquatic state of our English lacerta, known by the name of eft, or newt; which serve them for coverings to their gills, and for fins to swim with while in this state; and which they lose, as well as the fins of their tails, when they change their state and become land animals, as I have observed, by keeping them alive for some time myself.”

Linnaeus, in his Systema Naturæ, hints at what Mr. Ellis advances more than once.

Providence has been so indulgent to us as to allow of but one venomous reptile of the serpant kind in these kingdoms, and that is the viper. As you propose the good of mankind to be an object of your publications, you will not omit to mention common fallad-oil as a sovereign remedy against the bite of the viper. As to the blind worm (anguis fragilis, so called because it snaps in sunder with a small blow), I have found, on examination, that it is perfectly innocuous. A neighbouring yeoman (to whom I am indebted for some good hints) killed and opened a female viper about the twenty-seventh of May: he found her filled with a chain of eleven eggs, about the size of those of a blackbird; but none of them were advanced so far towards a state of maturity as to contain any rudiments of young. Though they are oviparous, yet they are viviparous also, hatching their young within their bellies, and then bringing them forth. Whereas snakes lay chains
OF SELBORNE.

chains of eggs every summer in my melon beds, in spite of all that my people can do to prevent them; which eggs do not hatch till the spring following, as I have often experienced. Several intelligent folks assure me that they have seen the viper open her mouth and admit her helpless young down her throat on sudden surprises, just as the female opossum does her brood into the pouch under her belly, upon the like emergencies; and yet the London viper-catchers insist on it, to Mr. Barrington, that no such thing ever happens. The serpent kind eat, I believe, but once in a year; or, rather, but only just at one season of the year. Country people talk much of a water-snake, but, I am pretty sure, without any reason; for the common snake (coluber natrix) delights much to sport in the water, perhaps with a view to procure frogs and other food.

I cannot well guess how you are to make out your twelve species of reptiles, unless it be by the various species, or rather varieties, of our lacerti, of which Ray enumerates five. I have not had opportunity of ascertaining these; but remember well to have seen, formerly, several beautiful green lacerti on the sunny sandbanks near Farnham, in Surrey; and Ray admits there are such in Ireland.
DEAR SIR,

Selborne, July 27, 1768.

I received your obliging and communicative letter of June the 28th, while I was on a visit at a gentleman's house, where I had neither books to turn to, nor leisure to sit down, to return you an answer to many queries, which I wanted to resolve in the best manner that I am able.

A person, by my order, has searched our brooks, but could find no such fish as the gasteropterus punctatus: he found the gasteropterus aculeatus in plenty. This morning, in a basket, I packed a little earthen pot full of wet moss, and in it some sticklebacks, male and female; the females big with spawn: some lamperns; some bulls heads; but I could procure no minnows. This basket will be in Fleet-street by eight this evening; so I hope Mazel will have them fresh and fair to-morrow morning. I gave some directions, in a letter, to what particulars the engraver should be attentive.

Finding, while I was on a visit, that I was within a reasonable distance of Ambresbury, I sent a servant over to that town, and procured several living specimens of loaches, which he brought, safe and brisk, in a glass decanter. They were taken in the gullies that were cut for watering the meadows. From these fishes (which measured from two to four inches in length) I took the following description: "The loach, in its general aspect, has "a pellucid appearance: it's back is mottled with irregular "collections of small black dots, not reaching much below the "linea
"linea lateralis, as are the back and tail fins: a black line runs from each eye down to the nose; it's belly is of a silvery white; the upper jaw projects beyond the lower, and is sur-
rounded with six feelers, three on each side; it's pectoral fins are large, it's ventral much smaller; the fin behind it's anus is small; it's dorsal-fin large, containing eight spines; it's tail, where it joins to the tail-fin, remarkably broad, without any taperness, so as to be characteristic of this genus: the tail-fin is broad, and square at the end. From the breadth and muscular strength of the tail it appears to be an active nimble fih."

In my visit I was not very far from Hungerford, and did not forget to make some inquiries concerning the wonderful method of curing cancers by means of toads. Several intelligent persons, both gentry and clergy, do, I find, give a great deal of credit to what was asserted in the papers: and I myself dined with a clergyman who seemed to be persuaded that what is related is matter of fact; but, when I came to attend to his account, I thought I discerned circumstances which did not a little invalidate the woman’s story of the manner in which she came by her skill. She says of herself "that, labouring under a virulent cancer, she went to some church where there was a vast crowd: on going into a pew, she was accosted by a strange clergyman; who, after expressing compassion for her situation, told her that if she would make such an application of living toads as is mentioned she would be well." Now is it likely that this unknown gentleman should express so much tenderness for this single sufferer, and not feel any for the many thousands that daily languish under this terrible disorder? Would he not have made use of this invaluable nostrum for his own emolument; or, at least, by some
fom€ means of publication or other, have found a method of making it public for the good of mankind? In short, this woman (as it appears to me) having set up for a cancer-doctress, finds it expedient to amuse the country with this dark and mysterious relation.

The water-eft has not, that I can discern, the least appearance of any gills; for want of which it is continually rising to the surface of the water to take in fresh air. I opened a big-bellied one indeed, and found it full of spawn. Not that this circumstance at all invalidates the assertion that they are larvæ: for the larvæ of insects are full of eggs, which they exclude the instant they enter their last state. The water-eft is continually climbing over the brims of the vessel, within which we keep it in water, and wandering away: and people every summer see numbers crawling, out of the pools where they are hatched, up the dry banks. There are varieties of them, differing in colour; and some have fins up their tail and back, and some have not.

LETTER XIX.

TO THE SAME.

DEAR SIR,

Selborne, Aug. 17, 1768.

I have now, past dispute, made out three distinct species of the willow-wrens (motacilla trochili) which constantly and invariably use distinct notes. But, at the same time, I am obliged to confess that I know nothing of your willow-lark. In my letter

OF SELBORNE.

of April the 18th, I had told you peremptorily that I knew your willow-lark, but had not seen it then: but, when I came to procure it, it proved, in all respects, a very motacilla trochilus; only that it is a size larger than the two other, and the yellow-green of the whole upper part of the body is more vivid, and the belly of a clearer white. I have specimens of the three sorts now lying before me; and can discern that there are three gradations of sizes, and that the least has black legs, and the other two flesh-coloured ones. The yellowest bird is considerably the largest, and has its quill-feathers and secondary feathers tipped with white, which the others have not. This last haunts only the tops of trees in high beechen woods, and makes a fibulous grasshopper-like noise, now and then, at short intervals, shivering a little with its wings when it sings; and is, I make no doubt now, the regulus non critatus of Ray; which he says "cantat voce fridulâ locustae." Yet this great ornithologist never suspected that there were three species.

LETTER XX.

TO THE SAME.

Selborne, October 8, 1768.

It is, I find, in zoology as it is in botany: all nature is so full, that that district produces the greatest variety which is the most examined. Several birds, which are said to belong to the north only, are, it seems, often in the south. I have discovered this summer
summer three species of birds with us, which writers mention as only to be seen in the northern counties. The first that was brought me (on the 14th of May), was the sandpiper, tringa hypoleucus: it was a cock bird, and haunted the banks of some ponds near the village; and, as it had a companion, doubtless intended to have bred near that water. Besides, the owner has told me since, that, on recollection, he has seen some of the same birds round his ponds in former summers.

The next bird that I procured (on the 21st of May) was a male red-backed butcher bird, lanius collurio. My neighbour, who shot it, says that it might easily have escaped his notice, had not the outcries and chattering of the white-throats and other small birds drawn his attention to the bush where it was: its craw was filled with the legs and wings of beetles.

The next rare birds (which were procured for me last week) were some ring-ousel, turdi torquati.

This week twelve months a gentleman from London, being with us, was amusing himself with a gun, and found, he told us, on an old yew hedge where there were berries, some birds like blackbirds, with rings of white round their necks: a neighbouring farmer also at the same time observed the same; but, as no specimens were procured, little notice was taken. I mentioned this circumstance to you in my letter of November the 4th, 1767: (you however paid but small regard to what I said, as I had not seen these birds myself): but last week the aforesaid farmer, seeing a large flock, twenty or thirty of these birds, shot two cocks and two hens: and says, on recollection, that he remembers to have observed these birds again last spring, about Lady-day, as it were, on their return to the north. Now perhaps these ousel are not the ousel of the north of England, but belong to the more northern parts of Europe.
Europe; and may retire before the excessive rigor of the frosts in those parts; and return to breed in the spring, when the cold abates. If this be the case, here is discovered a new bird of winter passage, concerning whose migrations the writers are silent: but if these birds should prove the oufels of the north of England, then here is a migration disclosed within our own kingdom never before remarked. It does not yet appear whether they retire beyond the bounds of our island to the south; but it is most probable that they usually do, or else one cannot suppose that they would have continued so long unnoticed in the southern counties. The ouzel is larger than a blackbird, and feeds on haws; but last autumn (when there were no haws) it fed on yew-berries: in the spring it feeds on ivy-berries, which ripen only at that season, in March and April.

I must not omit to tell you (as you have been so lately on the study of reptiles) that my people, every now and then of late, draw up with a bucket of water from my well, which is 63 feet deep, a large black warty lizard with a fin-tail and yellow belly. How they first came down at that depth, and how they were ever to have got out thence without help, is more than I am able to say.

My thanks are due to you for your trouble and care in the examination of a buck’s head. As far as your discoveries reach at present, they seem much to corroborate my suspicions; and I hope Mr. —— may find reason to give his decision in my favour; and then, I think, we may advance this extraordinary provision of nature as a new instance of the wisdom of God in the creation.

As yet I have not quite done with my history of the *oedicnemus*, or stone-curlew; for I shall desire a gentleman in Sussex (near whose house these birds congregate in vast flocks in the autumn)
to observe nicely when they leave him, (if they do leave him) and when they return again in the spring: I was with this gentleman lately, and saw several single birds.

LETTER XXI.

TO THE SAME.

DEAR SIR,

Selborne, Nov. 28, 1768.

With regard to the *oedicnemus*, or stone-curlew, I intend to write very soon to my friend near Chichester, in whose neighbourhood these birds seem most to abound; and shall urge him to take particular notice when they begin to congregate, and afterwards to watch them most narrowly whether they do not withdraw themselves during the dead of the winter. When I have obtained information with respect to this circumstance, I shall have finished my history of the *stone-curlew*; which I hope will prove to your satisfaction, as it will be, I trust, very near the truth. This gentleman, as he occupies a large farm of his own, and is abroad early and late, will be a very proper spy upon the motions of these birds: and besides, as I have prevailed on him to buy the Naturalist's Journal (with which he is much delighted), I shall expect that he will be very exact in his dates. It is very extraordinary, as you observe, that a bird so common with us should never straggle to you.

And here will be the properest place to mention, while I think of it, an anecdote which the above-mentioned gentleman told me when
OF SELBORNE.

when I was last at his house; which was that, in a warren joining to his outlet, many daws (*corvi monedula*) build every year in the rabbit-burrows under ground. The way he and his brothers used to take their nests, while they were boys, was by listening at the mouths of the holes; and, if they heard the young ones cry, they twisted the nest out with a forked stick. Some water-fowls (*viz.* the puffins) breed, I know, in that manner; but I should never have suspected the daws of building in holes on the flat ground.

Another very unlikely spot is made use of by daws as a place to breed in, and that is *Stonehenge*. These birds deposit their nests in the interstices between the upright and the impost stones of that amazing work of antiquity: which circumstance alone speaks the prodigious height of the upright stones, that they should be tall enough to secure those nests from the annoyance of shepherd-boys, who are always idling round that place.

One of my neighbours last Saturday, November the 26th, saw a martin in a sheltered bottom: the sun was warm, and the bird was hawking briskly after flies. I am now perfectly satisfied that they do not all leave this island in the winter.

You judge very right, I think, in speaking with reserve and caution concerning the cures done by toads: for, let people advance what they will on such subjects, yet there is such a propensity in mankind towards deceiving and being deceived, that one cannot safely relate any thing from common report, especially in print, without expressing some degree of doubt and suspicion.

Your approbation, with regard to my new discovery of the migration of the ring-ousel, gives me satisfaction; and I find you concur with me in suspecting that they are foreign birds which visit us. You will be sure, I hope, not to omit to make inquiry whether your ring-ousel leave your rocks in the autumn. What puzzles
puzzles me most, is the very short stay they make with us; for in about three weeks they are all gone. I shall be very curious to remark whether they will call on us at their return in the spring, as they did last year.

I want to be better informed with regard to ichthyology. If fortune had settled me near the sea-side, or near some great river, my natural propensity would soon have urged me to have made myself acquainted with their productions: but as I have lived mostly in inland parts, and in an upland district, my knowledge of fishes extends little farther than to those common sorts which our brooks and lakes produce.

I am, &c.

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LETTER XXII.

TO THE SAME.

DEAR SIR,

As to the peculiarity of jackdaws building with us under the ground in rabbit-burrows, you have, in part, hit upon the reason; for, in reality, there are hardly any towers or steeples in all this country. And perhaps, Norfolk excepted, Hampshire and Sussex are as mealy furnished with churches as almost any counties in the kingdom. We have many livings of two or three hundred pounds a year, whose houses of worship make little better appearance than dovecots. When I first saw Northamptonshire, Cambridgeshire and
OF SELBORNE.

and Huntingdonshire, and the fens of Lincolnshire, I was amazed at the number of spires which presented themselves in every point of view. As an admirer of prospects, I have reason to lament this want in my own country; for such objects are very necessary ingredients in an elegant landscape.

What you mention with respect to reclaimed toads raises my curiosity. An ancient author, though no naturalist, has well remarked that "Every kind of beasts, and of birds, and of serpents, and "things in the sea, is tamed, and hath been tamed, of mankind.""

It is a satisfaction to me to find that a green lizard has actually been procured for you in Devonshire; because it corroborates my discovery, which I made many years ago, of the same sort, on a funny sandbank near Farnham, in Surrey. I am well acquainted with the south hams of Devonshire; and can suppose that district, from its southerly situation, to be a proper habitation for such animals in their best colours.

Since the ring-ouzels of your vast mountains do certainly not forfear them against winter, our suspicions that those which visit this neighbourhood about Michaelmas are not English birds, but driven from the more northern parts of Europe by the frosts, are still more reasonable; and it will be worth your pains to endeavour to trace from whence they come, and to inquire why they make so very short a stay.

In your account of your error with regard to the two species of herons, you incidentally gave me great entertainment in your description of the heronry at Creiff-hall; which is a curiosity I never could manage to see. Fourscore nests of such a bird on one tree is a rarity which I would ride half as many miles to have a

* James, chap. iii. 7.
fight of. Pray be sure to tell me in your next whose feat Cressi-
hall is, and near what town it lies*. I have often thought that
those vast extents of fens have never been sufficiently explored.
If half a dozen gentlemen, furnished with a good strength of
water-fspaniels, were to beat them over for a week, they would
certainly find more species.

There is no bird, I believe, whose manners I have studied
more than that of the *caprimulgus* (the goat-fucker), as it is a won-
derful and curious creature: but I have always found that though
sometimes it may chatter as it flies, as I know it does, yet in
general it utters its jarring note sitting on a bough; and I have
for many an half hour watched it as it sat with it's under mandible
quivering, and particularly this summer. It perches usually on
a bare twig, with it's head lower than it’s tail, in an attitude well
expressed by your draughtsman in the folio *British Zoology*. This
bird is most punctual in beginning it's song exactly at the close of
day; so exactly that I have known it strike up more than once or
twice just at the report of the *Portsmouth* evening gun, which we
can hear when the weather is still. It appears to me past all
doubt that it’s notes are formed by organic impulse, by the
powers of the parts of it’s windpipe, formed for sound, just as cats
pur. You will credit me, I hope, when I assure you that, as my
neighbours were assembled in an b hermitage on the side of a steep
hill where we drink tea, one of these churn-owls came and
settled on the cross of that little straw edifice and began to chatter,
and continued his note for many minutes: and we were all struck
with wonder to find that the organs of that little animal, when put
in motion, gave a sensible vibration to the whole building! This

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*a Cressi-hall is near Spalling, in Lincolnshire.*  
*b See the vignette in this book.*
OF SELBORNE.

63

bird also sometimes makes a small squeak, repeated four or five times; and I have observed that to happen when the cock has been pursuing the hen in a toying way through the boughs of a tree.

It would not be at all strange if your bat, which you have procured, should prove a new one, since five species have been found in a neighbouring kingdom. The great fort that I mentioned is certainly a non-descript: I saw but one this summer, and that I had no opportunity of taking.

Your account of the Indian-grafs was entertaining. I am no angler myself; but inquiring of those that are, what they supposed that part of their tackle to be made of? they replied "of the intestines of a silkworm."

Though I must not pretend to great skill in entomology, yet I cannot say that I am ignorant of that kind of knowledge: I may now and then perhaps be able to furnish you with a little information.

The vast rains ceased with us much about the same time as with you, and since we have had delicate weather. Mr. Barker, who has measured the rain for more than thirty years, says, in a late letter, that more has fallen this year than in any he ever attended to; though, from July 1763 to January 1764, more fell than in any seven months of this year.
DEAR SIR,

Selborne, February 28, 1769.

It is not improbable that the Guernsey lizard and our green lizards may be specifically the same; all that I know is, that, when some years ago many Guernsey lizards were turned loose in Pembroke college garden, in the university of Oxford, they lived a great while, and seemed to enjoy themselves very well, but never bred. Whether this circumstance will prove anything either way I shall not pretend to say.

I return you thanks for your account of Crefft-ball; but recollect, not without regret, that in June 1746 I was visiting for a week together at Spalding, without ever being told that such a curiosity was just at hand. Pray send me word in your next what sort of tree it is that contains such a quantity of herons’ nests; and whether the heronry consists of a whole grove or wood, or only of a few trees.

It gave me satisfaction to find we accorded so well about the caprimulgus: all I contended for was to prove that it often chatters sitting as well as flying; and therefore the noise was voluntary, and from organic impulse, and not from the resistance of the air against the hollow of it’s mouth and throat.

If ever I saw any thing like actual migration, it was last Michaelmas-day. I was travelling, and out early in the morning: at first there was a vast fog; but, by the time that I was got seven or eight miles from home towards the coast, the sun broke out into a delicate
delicate warm day. We were then on a large heath or common, and I could discern, as the mist began to break away, great numbers of swallows (hirundines rustica) clustering on the flunteled shrubs and bushes, as if they had roosted there all night. As soon as the air became clear and pleasant they all were on the wing at once; and, by a placid and easy flight, proceeded on southward towards the sea: after this I did not see any more flocks, only now and then a straggler.

I cannot agree with those persons that assert that the swallow kind disappear some and some gradually, as they come, for the bulk of them seem to withdraw at once: only some stragglers stay behind a long while, and do never, there is the greatest reason to believe, leave this island. Swallows seem to lay themselves up, and to come forth in a warm day, as bats do continually of a warm evening, after they have disappeared for weeks. For a very respectable gentleman assured me that, as he was walking with some friends under Merton-wall on a remarkably hot noon, either in the last week in December or the first week in January, he espied three or four swallows huddled together on the moulding of one of the windows of that college. I have frequently remarked that swallows are seen later at Oxford than elsewhere: is it owing to the vast many buildings of that place, to the many waters round it, or to what else?

When I used to rise in a morning last autumn, and see the swallows and martins clustering on the chimneys and thatch of the neighbouring cottages, I could not help being touched with a secret delight, mixed with some degree of mortification: with delight, to observe with how much ardour and punctuality those poor little birds obeyed the strong impulse towards migration, or hiding, imprinted on their minds by their great Creator; and with some degree of mortification, when I reflected that, after all our
pains and inquiries, we are yet not quite certain to what regions they do migrate; and are still farther embarassed to find that some do not actually migrate at all.

These reflections made so strong an impression on my imagination, that they became productive of a composition that may perhaps amuse you for a quarter of an hour when next I have the honour of writing to you.

LETTER XXIV.

TO THE SAME.

DEAR SIR,

Selborne, May 29, 1769.

The sarcabaeus fullo I know very well, having seen it in collections; but have never been able to discover one wild in its natural state. Mr. Banks told me he thought it might be found on the seacoast.

On the thirteenth of April I went to the sheep-down, where the ring-onsels have been observed to make their appearance at spring and fall, in their way perhaps to the north or south; and was much pleased to see three birds about the usual spot. We shot a cock and a hen; they were plump and in high condition. The hen had but very small rudiments of eggs within her, which proves they are late breeders; whereas those species of the thrush kind that remain with us the whole year have fledged young before that time. In their crops was nothing very distinguishable, but somewhat that seemed like blades of vegetables nearly digested. In autumn
autumn they feed on haws and yew-berries, and in the spring on ivy-berries. I dressed one of these birds, and found it juicy and well flavoured. It is remarkable that they make but a few days stay in their spring visit, but rest near a fortnight at Michaelmas. These birds, from the observations of three springs and two autumns, are most punctual in their return; and exhibit a new migration unnoticed by the writers, who supposed they never were to be seen in any of the southern counties.

One of my neighbours lately brought me a new *falicaria*, which at first I suspected might have proved your willow-lark*, but, on a nicer examination, it answered much better to the description of that species which you shot at Reveley, in Lincolnshire. My bird I describe thus: "It is a size less than the grafshopper-lark; the head, back, and coverts of the wings, of a dusky brown, without those dark spots of the grafshopper-lark; over each eye is a milkwhite stroke; the chin and throat are white, and the under parts of a yellowish white; the rump is tawny, and the feathers of the tail sharp-pointed; the bill is dusky and sharp, and the legs are dusky; the hinder claw long and crooked." The person that shot it says that it sung so like a reed-sparrow that he took it for one; and that it sings all night; but this account merits farther inquiry. For my part, I suspect it is a second sort of *locustella*, hinted at by Dr. Derham in Ray's *Letters*: see p. 108. He also procured me a grafshopper-lark.

The question that you put with regard to those genera of animals that are peculiar to *America*, viz. how they came there, and whence? is too puzzling for me to answer; and yet so obvious as often to have struck me with wonder. If one looks into the writers

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* For this *falicaria* see letter August 30, 1769.
NATURAL HISTORY

on that subject little satisfaction is to be found. Ingenious men will readily advance plausible arguments to support whatever theory they shall choose to maintain; but then the misfortune is, every one's hypothesis is each as good as another's, since they are all founded on conjecture. The late writers of this sort, in whom may be seen all the arguments of those that have gone before, as I remember, flock America from the western coast of Africa and the south of Europe; and then break down the Isthmus that bridged over the Atlantic. But this is making use of a violent piece of machinery: it is a difficulty worthy of the interposition of a god! "Incredulius odi".

TO THOMAS PENNANT, ESQUIRE.

THE NATURALIST'S SUMMER-EVENING WALK.

equidem credo, quia fit divinitus illis
Ingenium.

Virg. Georg.

WHEN day declining sheds a milder gleam,
What time the may-fly⁴ haunts the pool or stream;
When the still owl skims round the grassy mead,
What time the timorous hare limps forth to feed;

⁴ The angler's may-fly, the Ephemer a vul gata Linn., comes forth from its aurelia state, and emerges out of the water about six in the evening, and dies about eleven at night, determining the date of its fly state in about five or six hours. They usually begin to appear about the 4th of June, and continue in succession for near a fortnight. See Swammerdam, Derham, Scopoli, &c.

Then
OF SELBORNE.

Then be the time to steal adown the vale,
And listen to the vagrant\(^e\) cuckoo’s tale;
To hear the clamorous\(^f\) curlew call his mate,
Or the soft quail his tender pain relate;
To see the swallow sweep the dark’ning plain
Belated, to support her infant train;
To mark the swift in rapid giddy ring
Dash round the steeple, unsubdu’d of wing:
Amusive birds!—say where your hid retreat
When the frost rages and the tempefts beat;
Whence your return, by such nice instinct led,
When spring, soft seafon, lifts her bloomy head?
Such baffled searches mock man’s prying pride,
The GOD of NATURE is your secret guide!

While deep’ning shades obscure the face of day
To yonder bench leaf-shelter’d let us stray,
’Till blended objects fail the swimming sight,
And all the fading landscape sinks in night;
To hear the drowfy dor come bruishing by
With buzzing wing, or the thrill\(^g\) cricket cry;
To see the feeding bat glance through the wood;
To catch the distant falling of the flood;
While o’er the cliff th’ awaken’d churn-owl hung
Through the still gloom protracts his chattering song;
While high in air, and pois’d upon his wings,
Unseen, the soft enamour’d\(^h\) woodlark fings:

\(^e\) Vagrant cuckoo; so called because, being tied down by no incubation or attendance about the nutrition of its young, it wanders without control.
\(^f\) Charadrius oedicnemus.
\(^g\) Gryllus campestris.
\(^h\) In hot summer nights woodlarks soar to a prodigious height and hang singing in the air.
These, NATURE's works, the curious mind employ,
Inspire a soothing melancholy joy:
As fancy warms, a pleasing kind of pain
Steals o'er the cheek, and thrills the creeping vein!
Each rural sight, each sound, each smell, combine;
The tinkling sheep-bell, or the breath of kine;
The new-mown hay that scents the swelling breeze,
Or cottage-chimney smoking through the trees.
The chilling night-dews fall:—away, retire;
For see, the glow-worm lights her amorous fire!
Thus, e'er night's veil had half obscur'd the sky,
Th' impatient damsel hung her lamp on high:
True to the signal, by love's meteor led,
Leander hasten'd to his Hero's bed.

I am, &c.

LETTER XXV.

TO THE SAME.

DEAR SIR,

Selborne, Aug. 30, 1769.

It gives me satisfaction to find that my account of the *ouzel migration* pleases you. You put a very shrewd question when you ask me how I know that their autumnal migration is southward?

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1 The light of the female glow-worm (as she often crawls up the stalk of a grass to make herself more conspicuous) is a signal to the male, which is a slender dusky *scarabaeus*.

2 See the story of *Hero* and *Leander*.
Was not candour and openness the very life of natural history, I should pass over this query just as a fly commentator does over a crabbed passage in a classic; but common ingenuousness obliges me to confess, not without some degree of shame, that I only reasoned in that case from analogy. For as all other autumnal birds migrate from the northward to us, to partake of our milder winters, and return to the northward again when the rigorous cold abates, so I concluded that the ring-oufels did the same, as well as their congener the fieldfares; and especially as ring-oufels are known to haunt cold mountainous countries: but I have good reason to suspect since that they may come to us from the westward; because I hear, from very good authority, that they breed on Dartmore; and that they forsake that wild district about the time that our visitors appear, and do not return till late in the spring.

I have taken a great deal of pains about your *falicaria* and mine, with a white stroke over its eye and a tawny rump. I have surveyed it alive and dead, and have procured several specimens; and am perfectly persuaded myself (and trust you will soon be convinced of the same) that it is no more nor less than the *passer arundinaceus minor* of Ray. This bird, by some means or other, seems to be entirely omitted in the *British Zoology*; and one reason probably was because it is so strangely classed in *Ray*, who ranges it among his *picis affines*. It ought no doubt to have gone among his *aviculae caudæ unicolore*, and among your slender-billed small birds of the same division. *Linnaeus* might with great propriety have put it into his genus of *motacilla*; and the *motacilla falicaria* of his *fauna suecica* seems to come the nearest to it. It is no uncommon bird, haunting the sides of ponds and rivers where there is covert, and the reeds and fedges of moors. The country people in some places call it the *fedge-bird*. It sings incessantly night and day.
day during the breeding-time, imitating the note of a sparrow, a swallow, a sky-lark; and has a strange hurrying manner in it's song. My specimens correspond most minutely to the description of your *fex fagicaria* shot near Revesby. Mr. Ray has given an excellent characteristic of it when he says, "Rostrum & pedes in *hác aviculâ multò maiores sunt quàm pro corporis ratione." See letter May 29, 1769.

I have got you the egg of an *oedicnemus*, or stone-curlew, which was picked up in a fallow on the naked ground: there were two; but the finder inadvertently crushed one with his foot before he saw them.

When I wrote to you last year on reptiles, I wish I had not forgot to mention the faculty that snakes have of flinking *se defendendo*. I knew a gentleman who kept a tame snake, which was in it's person as sweet as any animal while in good humour and unalarmed; but as soon as a stranger, or a dog or cat, came in, it fell to hissing, and filled the room with such nauseous effluvia as rendered it hardly supportable. Thus the squenck, or flonck, of Ray's *Synop. Quadr.* is an innocuous and sweet animal; but, when pressured hard by dogs and men, it can eject such a most pestilent and fetid smell and excrement, that nothing can be more horrible.

A gentleman sent me lately a fine specimen of the *lanius minor cinereascens cum macula in scapus albâ*, *Raii*; which is a bird that, at the time of your publishing your two first volumes of *British Zoology*, I find you had not seen. You have described it well from *Edwards's* drawing.

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LETTER
OF SELBORNE.

LETTER XXVI.

TO THE SAME.

DEAR SIR,

Selborne, December 8, 1799.

I was much gratified by your communicative letter on your return from Scotland, where you spent, I find, some considerable time, and gave yourself good room to examine the natural curiosities of that extensive kingdom, both those of the islands, as well as those of the highlands. The usual bane of such expeditions is hurry; because men seldom allot themselves half the time they should do: but, fixing on a day for their return, post from place to place, rather as if they were on a journey that required dispatch, than as philosophers investigating the works of nature. You must have made, no doubt, many discoveries, and laid up a good fund of materials for a future edition of the British Zoology; and will have no reason to repent that you have bestowed so much pains on a part of Great-Britain that perhaps was never so well examined before.

It has always been matter of wonder to me that fieldfares, which are so congeners to thrushes and blackbirds, should never choose to breed in England: but that they should not think even the highlands cold and northerly, and sequestered enough, is a circumstance still more strange and wonderful. The ringouzel, you find, stays in Scotland the whole year round; so that we have reason to conclude that those migrators that visit us for a short space every autumn do not come from thence.

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And
And here, I think, will be the proper place to mention that those birds were most punctual again in their migration this autumn, appearing, as before, about the 30th of September: but their flocks were larger than common, and their stay protracted somewhat beyond the usual time. If they came to spend the whole winter with us, as some of their congeneres do, and then left us, as they do, in spring, I should not be so much struck with the occurrence, since it would be similar to that of the other winter birds of passage; but when I see them for a fortnight at Michaelmas, and again for about a week in the middle of April, I am seized with wonder, and long to be informed whence these travellers come, and whither they go, since they seem to use our hills merely as an inn or baiting place.

Your account of the greater brambling, or snow-fleck, is very amusing; and strange it is that such a short-winged bird should delight in such perilous voyages over the northern ocean! Some country people in the winter time have every now and then told me that they have seen two or three white larks on our downs; but, on considering the matter, I begin to suspect that these are some stragglers of the birds we are talking of, which sometimes perhaps may rove so far to the southward.

It pleases me to find that white hares are so frequent on the Scottish mountains, and especially as you inform me that it is a distinct species; for the quadrupeds of Britain are so few, that every new species is a great acquisition.

The eagle-owl, could it be proved to belong to us, is so majestic a bird, that it would grace our fauna much. I never was informed before where wild-geese are known to breed.

You admit, I find, that I have proved your sen-salicaria to be the lesser reed-sparrow of Ray: and I think you may be secure that
that I am right; for I took very particular pains to clear up that matter, and had some fair specimens; but, as they were not well preserved, they are decayed already. You will, no doubt, insert it in its proper place in your next edition. Your additional plates will much improve your work.

De Buffon, I know, has described the water shrew-mouse: but still I am pleased to find you have discovered it in Lincolnshire, for the reason I have given in the article of the white hare.

As a neighbour was lately plowing in a dry chalky field, far removed from any water, he turned out a water-rat, that was curiously laid up in an *hybernaculum* artificially formed of grass and leaves. At one end of the *burrow* lay above a gallon of potatoes regularly flowed, on which it was to have supported itself for the winter. But the difficulty with me is how this *amphibius mus* came to fix its winter station at such a distance from the water. Was it determined in its choice of that place by the mere accident of finding the potatoes which were planted there; or is it the constant practice of the aquatic-rat to forfake the neighbourhood of the water in the colder months?

Though I delight very little in analogous reasoning, knowing how fallacious it is with respect to natural history; yet, in the following instance, I cannot help being inclined to think it may conduce towards the explanation of a difficulty that I have mentioned before, with respect to the invariable early retreat of the *hirundo apus*, or swift, so many weeks before it's congener; and that not only with us, but also in Andalusia, where they also begin to retire about the beginning of August.

The great large bat¹ (which by the by is at present a non-

¹ The little bat appears almost every month in the year; but I have never seen the large ones till the end of April, nor after July. They are most common in June, but never in any plenty: are a rare species with us.
descrieft in England, and what I have never been able yet to procure) retires or migrates very early in the summer: it also ranges very high for its food, feeding in a different region of the air; and that is the reason I never could procure one. Now this is exactly the case with the swifts; for they take their food in a more exalted region than the other species, and are very seldom seen hawking for flies near the ground, or over the surface of the water. From hence I would conclude that these *hirundines*, and the larger bats, are supported by some sorts of high-flying gnats, scarabs, or *phalæna*, that are of short continuance; and that the short stay of these strangers is regulated by the defect of their food.

By my journal it appears that curlews clamoured on to October the thirty-first; since which I have not seen or heard any. Swallows were observed on to November the third.

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**LETTER XXVII.**

**TO THE SAME.**

**DEAR SIR,**

**Selborne,** Feb. 22, 1770.

**HEDGE-HOGS** abound in my gardens and fields. The manner in which they eat their roots of the plantain in my grass-walks is very curious: with their upper mandible, which is much longer than their lower, they bore under the plant, and so eat the root off upwards, leaving the tuft of leaves untouched. In this respect they are
are serviceable, as they destroy a very troublesome weed; but they deface the walks in some measure by digging little round holes. It appears, by the dung that they drop upon the turf, that beetles are no inconsiderable part of their food. In June last I procured a litter of four or five young hedge-hogs, which appeared to be about five or six days old: they, I find, like puppies, are born blind, and could not see when they came to my hands. No doubt their spines are soft and flexible at the time of their birth, or else the poor dam would have but a bad time of it in the critical moment of parturition: but it is plain that they soon harden; for these little pigs had such stiff prickles on their backs and sides as would easily have fetched blood, had they not been handled with caution. Their spines are quite white at this age; and they have little hanging ears, which I do not remember to be discernible in the old ones. They can, in part, at this age draw their skin down over their faces; but are not able to contract themselves into a ball, as they do, for the sake of defence, when full grown. The reason, I suppose, is, because the curious muscle that enables the creature to roll itself up in a ball was not then arrived at its full tone and firmness. Hedge-hogs make a deep and warm hypenaculum with leaves and moss, in which they conceal themselves for the winter: but I never could find that they stored in any winter provision, as some quadrupeds certainly do.

I have discovered an anecdote with respect to the fieldfare (turdus pilaris), which I think is particular enough: this bird, though it sits on trees in the day-time, and procures the greatest part of its food from white-thorn hedges; yea, moreover, builds on very high trees; as may be seen by the fauna suecica; yet always appears with us to roost on the ground. They are seen to come in flocks just before it is dark, and to settle and nestle among
among the heath on our forest. And besides, the larkers, in dragging their nets by night, frequently catch them in the wheat-stubbles; while the bat-fowlers, who take many red-wings in the hedges, never entangle any of this species. Why these birds, in the matter of roofeting, should differ from all their congeners, and from themselves also with respect to their proceedings by day, is a fact for which I am by no means able to account.

I have somewhat to inform you of concerning the moose-deer; but in general foreign animals fall seldom in my way: my little intelligence is confined to the narrow sphere of my own observations at home.

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LETTER XXVIII.

TO THE SAME.

Selborne, March 1770.

On Michaelmas-day 1768 I managed to get a sight of the female moose belonging to the duke of Richmond, at Goodwood; but was greatly disappointed, when I arrived at the spot, to find that it died, after having appeared in a languishing way for some time, on the morning before. However, understanding that it was not stripped, I proceeded to examine this rare quadruped: I found it in an old green-house, slung under the belly and chin by ropes, and in a standing posture; but, though it had been dead for so short a time, it was in so putrid a state that the stench was hardly supportable.
The grand distinction between this deer, and any other species that I have ever met with, consisted in the strange length of its legs; on which it was tilted up much in the manner of the birds of the grallae order. I measured it, as they do an horse, and found that, from the ground to the wither, it was just five feet four inches; which height answers exactly to sixteen hands, a growth that few horses arrive at: but then, with this length of legs, its neck was remarkably short, no more than twelve inches; so that, by straddling with one foot forward and the other backward, it grazed on the plain ground, with the greatest difficulty, between its legs: the ears were vast and lopping, and as long as the neck; the head was about twenty inches long, and as-like; and had such a redundancy of upper lip as I never saw before, with huge nostrils. This lip, travellers say, is esteemed a dainty dish in North America. It is very reasonable to suppose that this creature supports itself chiefly by browsing of trees, and by wading after water plants; towards which way of livelihood the length of legs and great lip must contribute much. I have read somewhere that it delights in eating the nymphaea, or water-lily. From the fore-feet to the belly behind the shoulder it measured three feet and eight inches: the length of the legs before and behind consisted a great deal in the tibia, which was strangely long; but, in my haste to get out of the stench, I forgot to measure that joint exactly. It’s scut seemed to be about an inch long; the colour was a grizzly black; the mane about four inches long; the fore-hoofs were upright and shapely, the hind flat and splayed. The spring before it was only two years old, so that most probably it was not then come to it’s growth. What a vast tall beast must a full grown stag be! I have been told some arrive at ten feet and an half! This poor creature had at first a female companion of the same
fame species, which died the spring before. In the fame garden
was a young flag, or red deer, between whom and this moose it
was hoped, that there might have been a breed; but their inequality
of height must have always been a bar to any commerce of the
amorous kind. I should have been glad to have examined the
teeth, tongue, lips, hoofs, &c. minutely; but the putrefaction
precluded all farther curiosity. This animal, the keeper told me,
seemed to enjoy itself best in the extreme frost of the former winter.
In the house they shewed me the horn of a male moose, which had
no front-antlers, but only a broad palm with some snags on the
edge. The noble owner of the dead moose proposed to make a
skeleton of her bones.

Please to let me hear if my female moose corresponds with that
you saw; and whether you think still that the American moose and
European elk are the fame creature. I am,

With the greatest esteem, &c.

LETTER XXIX.

TO THE SAME.

DEAR SIR,

Last month we had such a series of cold turbulent weather,
such a constant succession of frost, and snow, and hail, and
tempest, that the regular migration or appearance of the summer
birds was much interrupted. Some did not shew themselves (at
least
least were not heard) till weeks after their usual time; as the black-cap and white-throat; and some have not been heard yet, as the grasshopper-lark and largest willow-wren. As to the fly-catcher, I have not seen it; it is indeed one of the latest, but should appear about this time; and yet, amidst all this meteorous strife and war of the elements, two swallows discovered themselves as long ago as the eleventh of April, in frost and snow; but they withdrew quickly, and were not visible again for many days. House-martins, which are always more backward than swallows, were not observed till May came in.

Among the monogamous birds several are to be found, after pairing-time, single, and of each sex: but whether this state of celibacy is matter of choice or necessity, is not so easily discoverable. When the house-sparrows deprive my martins of their nests, as soon as I cause one to be shot, the other, be it cock or hen, presently procures a mate, and so for several times following.

I have known a dove-house infested by a pair of white owls, which made great havoc among the young pigeons: one of the owls was shot as soon as possible; but the survivor readily found a mate, and the mischief went on. After some time the new pair were both destroyed, and the annoyance ceased.

Another instance I remember of a sportsman, whose zeal for the increase of his game being greater than his humanity, after pairing-time he always shot the cock-bird of every couple of partridges upon his grounds; supposing that the rivalry of many males interrupted the breed: he used to say, that, though he had widowed the same hen several times, yet he found she was still provided with a fresh paramour, that did not take her away from her usual haunt.

Again; I knew a lover of setting, an old sportsman, who has
often told me that soon after harvest he has frequently taken small coveys of partridges, consisting of cock-birds alone; these he pleasantly used to call old bachelors.

There is a propensity belonging to common house-cats that is very remarkable; I mean their violent fondness for fish, which appears to be their most favourite food: and yet nature in this instance seems to have planted in them an appetite that, unsatisfied, they know not how to gratify: for of all quadrupeds cats are the least disposed towards water; and will not, when they can avoid it, deign to wet a foot, much less to plunge into that element.

Quadrupeds that prey on fish are amphibious: such is the otter, which by nature is so well formed for diving, that it makes great havoc among the inhabitants of the waters. Not supposing that we had any of those beasts in our shallow brooks, I was much pleased to see a male otter brought to me, weighing twenty-one pounds, that had been shot on the bank of our stream below the Priory, where the rivulet divides the parish of Selborne from Harteley-wood.

LETTER XXX.

TO THE SAME.

DEAR SIR,

Selborne, Aug. 1, 1770.

The French, I think, in general are strangely prolix in their natural history. What Linnaeus says with respect to insects holds good in every other branch: "Verbofitas praefentis faculi, calamitas aris."
Pray how do you approve of Scopoli's new work? as I admire his *Entomologia*, I long to see it.

I forgot to mention in my last letter (and had not room to insert in the former) that the male moose, in rutting time, swims from island to island, in the lakes and rivers of *North-America*, in pursuit of the females. My friend, the chaplain, saw one killed in the water as it was on that errand in the river *St. Lawrence*: it was a monstrous beast, he told me; but he did not take the dimensions.

When I was last in town our friend Mr. *Barrington* most obligingly carried me to see many curious sights. As you were then writing to him about horns, he carried me to see many strange and wonderful specimens. There is, I remember, at Lord *Pembroke*'s, at *Wilton*, an horn room furnished with more than thirty different pairs; but I have not seen that house lately.

Mr. *Barrington* shewed me many astonishing collections of stuffed and living birds from all quarters of the world. After I had studied over the latter for a time, I remarked that every species almost that came from distant regions, such as *South America*, the coast of *Guinea*, &c. were thick-billed birds of the *loxia* and *fringilla* genera; and no *motacilla*, or *muscicapæ*, were to be met with. When I came to consider, the reason was obvious enough; for the hard-billed birds subsist on seeds which are easily carried on board; while the soft-billed birds, which are supported by worms and insects, or, what is a *succedaneum* for them, fresh raw meat, can meet with neither in long and tedious voyages. It is from this defect of food that our collections (curious as they are) are defective, and we are deprived of some of the most delicate and lively genera.

I am, &c.

LETTER
Dear Sir,

Selborne, Sept. 14, 1770.

You saw, I find, the ring-ousels again among their native crags; and are farther assured that they continue resident in those cold regions the whole year. From whence then do our ring-ousels migrate so regularly every September, and make their appearance again, as if in their return, every April? They are more early this year than common, for some were seen at the usual hill on the fourth of this month.

An observing Devonshire gentleman tells me that they frequent some parts of Dartmoor, and breed there; but leave those haunts about the end of September or beginning of October, and return again about the end of March.

Another intelligent person assures me that they breed in great abundance all over the Peak of Derby, and are called there Tor-ousels; withdraw in October and November, and return in spring. This information seems to throw some light on my new migration.

Scopoli's new work (which I have just procured) has its merit in ascertaining many of the birds of the Tirol and Carniola. Monographers, come from whence they may, have, I think, fair pretense to challenge some regard and approbation from the

*Annum Primus Historico-Naturalis.*
lovers of natural history; for, as no man can alone investigate all
the works of nature, these partial writers may, each in their
department, be more accurate in their discoveries, and freer
from errors, than more general writers; and so by degrees may
pave the way to an universal correct natural history. Not that
Scopoli is so circumstantial and attentive to the life and conversation
of his birds as I could wish: he advances some false facts; as
when he says of the *hirundo urbica* that "*pullos extra nidum non*
"*nutrit.*" This assertion I know to be wrong from repeated
observation this summer; for house-martins do feed their young
flying, though it must be acknowledged not so commonly as
the house-swallow; and the feat is done in so quick a manner as
not to be perceptible to indifferent observers. He also advances
some (I was going to say) improbable facts; as when he says of
the woodcock that "*pullos rostro portat fugiens ab hoffe.*" But candour
forbids me to say absolutely that any fact is false, because I have
never been witness to such a fact. I have only to remark that the
long unwieldy bill of the woodcock is perhaps the worst adapted
of any among the winged creation for such a feat of natural
affection.

I am, &c.
After an ineffectual search in Linnaeus, Brisson, &c. I begin to suspect that I discern my brother's *hirundo hyberna* in Scopoli's new discovered *hirundo rupestris*, p. 167. His description of "Supra murina, subitus albida; rectrices maculâ ovali alba in latere interno; pedes nudi, nigri; rostrum nigrum; remiges obscuros quam plumæ dorsales; rectrices remigibus concolores; caudâ emarginâtâ, nec forcipâtâ;" agrees very well with the bird in question: but when he comes to advance that it is "*flatura hirundinis urbica*," and that "*definitio hirundinis ripariae Linnaei buic quoque convenit*," he in some measure invalidates all he has said; at least he shews at once that he compares them to these species merely from memory: for I have compared the birds themselves, and find they differ widely in every circumstance of shape, size, and colour. However, as you will have a specimen, I shall be glad to hear what your judgment is in the matter.

Whether my brother is forestalled in his non-descript or not, he will have the credit of first discovering that they spend their winters under the warm and sheltery shores of Gibraltar and Barbary.

Scopoli's characters of his ordines and genera are clean, just, and expressive, and much in the spirit of Linnaeus. These few remarks are the result of my first perusal of Scopoli's *Annus Primus.*
OF SELBORNE.

The bane of our science is the comparing one animal to the other by memory: for want of caution in this particular Scopoli falls into errors: he is not so full with regard to the manners of his indigenous birds as might be wished, as you justly observe: his Latin is easy, elegant, and expressive, and very superior to Kramer's n.

I am pleased to see that my description of the moose corresponds so well with yours. I am, &c.

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LETTER XXXIII.

TO THE SAME.

DEAR SIR,

Selborne, Nov. 26, 1770.

I was much pleased to see, among the collection of birds from Gibraltar, some of those short-winged English summer-birds of passage, concerning whose departure we have made so much inquiry. Now if these birds are found in Andalusia to migrate to and from Barbary, it may easily be supposed that those that come to us may migrate back to the continent, and spend their winters in some of the warmer parts of Europe. This is certain, that many soft-billed birds that come to Gibraltar appear there only in spring and autumn, seeming to advance in pairs towards the northward, for the sake of breeding during the summer months;

n See his Elensbus vegetabilium et animalium per Austriam inferiorem, &c.
NATURAL HISTORY

and retiring in parties and broods towards the south at the decline of the year: so that the rock of Gibraltar is the great rendezvous, and place of observation, from whence they take their departure each way towards Europe or Africa. It is therefore no mean discovery, I think, to find that our small short-winged summer birds of passage are to be seen spring and autumn on the very skirts of Europe; it is a presumptive proof of their emigrations.

Scopoli seems to me to have found the *hirundo melba*, the great Gibraltar swift, in Tirol, without knowing it. For what is his *hirundo alpina* but the afore-mentioned bird in other words? Says he "Omnia priori" (meaning the swift); "sed pectus album; paulo major priore." I do not suppose this to be a new species. It is true also of the *melba*, that "nidificat in excelsis Alpium rupibus." Vid. Annum Primum.

My Sussex friend, a man of observation and good sense, but no naturalist, to whom I applied on account of the "stone-curlew*, oedicnemus*, sends me the following account: "In looking over "my Naturalist's Journal for the month of April, I find the "stone-curlews are first mentioned on the seventeenth and eighteenth, "which date seems to me rather late. They live with us all the "spring and summer, and at the beginning of autumn prepare "to take leave by getting together in flocks. They seem to me "a bird of passage that may travel into some dry hilly country "south of us, probably Spain, because of the abundance of "sheep-walks in that country; for they spend their summers "with us in such districts. This conjecture I hazard, as I have "never met with any one that has seen them in England in the "winter. I believe they are not fond of going near the water, "but feed on earth-worms, that are common on sheep-walks and "downs. They breed on fallows and lay-fields abounding with "grey
OF SELBORNE.

"grey mossy flints, which much resemble their young in colour;
"among which they skulk and conceal themselves. They
"make no neft, but lay their eggs on the bare ground,
"producing in common but two at a time. There is reason to
"think their young run soon after they are hatched; and that
"the old ones do not feed them, but only lead them about at
"the time of feeding, which, for the most part, is in the night."
Thus far my friend.

In the manners of this bird you see there is something very
analogous to the bustard, whom it also somewhat resembles in
aspect and make, and in the structure of its feet.

For a long time I have desired my relation to look out for
these birds in Andalusia; and now he writes me word that, for the
first time, he saw one dead in the market on the third of September.

When the oedicnemus flies it stretches out its legs straight behind,
like an heron. I am &c.

LETTER XXXIV.

TO THE SAME.

DEAR SIR,

Selborne, March 30, 1771.

There is an insect with us, especially on chalky districts, which
is very troublesome and teasing all the latter end of the summer,
getting into people's skins, especially those of women and children,
and raising tumours which itch intolerably. This animal (which we call an harvest bug) is very minute, scarce discernible to the naked eye; of a bright scarlet colour, and of the genus of Acarus. They are to be met with in gardens on kidneybeans, or any legumens; but prevail only in the hot months of summer. Warreners, as some have assured me, are much infested by them on chalky downs; where these insects swarm sometimes to so infinite a degree as to discolour their nets, and to give them a reddish cast, while the men are so bitten as to be thrown into fevers.

There is a small long shining fly in these parts very troublesome to the housewife, by getting into the chimney, and laying its eggs in the bacon while it is drying: these eggs produce maggots called jumpers, which, harbouring in the gammons and best parts of the hogs, eat down to the bone, and make great waste. This fly I suspect to be a variety of the musca putris of Linnaeus: it is to be seen in the summer in farm-kitchens on the bacon-racks and about the mantle-pieces, and on the ceilings.

The insect that infests turnips and many crops in the garden (destroying often whole fields while in their seedling leaves) is an animal that wants to be better known. The country people here call it the turnip-fly and black-dolphin; but I know it to be one of the coleoptera; the "chrysomela oleracea, saltatoria, femoribus " po fica c raff linis." In very hot summers they abound to an amazing degree, and, as you walk in a field or in a garden, make a pattering like rain, by jumping on the leaves of the turnips or cabbages.

There is an Oestrus, known in these parts to every ploughboy; which, because it is omitted by Linnaeus, is also passed over by late writers; and that is the curvicauda of old Monfet, mentioned by
OF SELBORNE.

by Derham in his Physico-theology, p. 250: an insect worthy of remark for depositing its eggs as it flies in so dextrous a manner on the single hairs of the legs and flanks of grass-horses. But then Derham is mistaken when he advances that this Oestrus is the parent of that wonderful star-tailed maggot which he mentions afterwards; for more modern entomologists have discovered that singular production to be derived from the egg, or the musca chamæleon: see Geoffroy, t. 17, f. 4.

A full history of noxious insects hurtful in the field, garden, and house, suggesting all the known and likely means of destroying them, would be allowed by the public to be a most useful and important work. What knowledge there is of this sort lies scattered, and wants to be collected; great improvements would soon follow of course. A knowledge of the properties, economy, propagation, and in short of the life and conversation of these animals, is a necessary step to lead us to some method of preventing their depredations.

As far as I am a judge, nothing would recommend entomology more than some neat plates that should well express the generic distinctions of insects according to Linnaeus; for I am well assured that many people would study insects, could they set out with a more adequate notion of those distinctions than can be conveyed at first by words alone.
Happening to make a visit to my neighbour's peacocks, I could not help observing that the trains of those magnificent birds appear by no means to be their tails; those long feathers growing not from their uropygium, but all up their backs. A range of short brown stiff feathers, about six inches long, fixed in the uropygium, is the real tail, and serves as the fulcrum to prop the train, which is long and top-heavy, when set an end. When the train is up, nothing appears of the bird before but its head and neck; but this would not be the case were those long feathers fixed only in the rump, as may be seen by the turkey-cock when in a strutting attitude. By a strong muscular vibration these birds can make the shafts of their long feathers clatter like the swords of a sword-dancer; they then trample very quick with their feet, and run backwards towards the females.

I should tell you that I have got an uncommon calculus egogropila, taken out of the stomach of a fat ox; it is perfectly round, and about the size of a large Seville orange; such are, I think, usually flat.
OF SELBORNE.

LETTER XXXVI.

TO THE SAME.

DEAR SIR,

Sept. 1771.

The summer through I have seen but two of that large species of bat which I call *vespertilio alivolans*, from its manner of feeding high in the air: I procured one of them, and found it to be a male; and made no doubt, as they accompanied together, that the other was a female: but, happening in an evening or two to procure the other likewise, I was somewhat disappointed, when it appeared to be also of the same sex. This circumstance, and the great scarcity of this sort, at least in these parts, occasions some suspicions in my mind whether it is really a species, or whether it may not be the male part of the more known species, one of which may supply many females; as is known to be the case in sheep, and some other quadrupeds. But this doubt can only be cleared by a farther examination, and some attention to the sex, of more specimens: all that I know at present is, that my two were amply furnished with the parts of generation much resembling those of a boar.

In the extent of their wings they measured fourteen inches and an half; and four inches and an half from the nose to the tip of the tail: their heads were large, their nostrils bilobated, their shoulders broad and muscular; and their whole bodies fleety and plump. Nothing could be more fleek and soft than their fur, which was of a bright chestnut colour; their maws were full of food,
food, but so macerated that the quality could not be distinguished; their livers, kidneys, and hearts, were large, and their bowels covered with fat. They weighed each, when entire, full one ounce and one drachm. Within the ear there was somewhat of a peculiar structure that I did not understand perfectly; but refer it to the observation of the curious anatomist. These creatures sent forth a very rancid and offensive smell.

LETTER XXXVII.

TO THE SAME.

DEAR SIR,

Selborne, 1771.

On the twelfth of July I had a fair opportunity of contemplating the motions of the caprimulgus, or fern-owl, as it was playing round a large oak that swarmed with scarabaei folliolates, or fern-chafers. The powers of its wing were wonderful, exceeding, if possible, the various evolutions and quick turns of the swallow genus. But the circumstance that pleased me most was, that I saw it distinctly, more than once, put out its short leg while on the wing, and, by a bend of the head, deliver somewhat into its mouth. If it takes any part of its prey with its foot, as I have now the greatest reason to suppose it does these chafers, I no longer wonder at the use of its middle toe, which is curiously furnished with a serrated claw.

Swallows
OF SELBORNE.

Swallows and martins, the bulk of them I mean, have forsaken us sooner this year than usual; for, on September the twenty-second, they rendezvoused in a neighbour's walnut-tree, where it seemed probable they had taken up their lodging for the night. At the dawn of the day, which was foggy, they arose all together in infinite numbers, occasioning such a rushing from the strokes of their wings against the hazy air, as might be heard to a considerable distance: since that no flock has appeared, only a few stragglers.

Some swifts staid late, till the twenty-second of August—a rare instance! for they usually withdraw within the first week.

On September the twenty-fourth three or four ring-oufels appeared in my fields for the first time this season: how punctual are these visitors in their autumnal and spring migrations!

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LETTER XXXVIII.

TO THE SAME.

DEAR SIR,

Selborne, March 15, 1773.

By my journal for last autumn it appears that the house-martins bred very late, and staid very late in these parts; for, on the first of October, I saw young martins in their nest nearly fledged; and again, on the twenty-first of October, we had at the next house a nest full of young martins just ready to fly; and the old ones were hawking for insects with great alertness. The next

* See letter liii. to Mr. Barrington.*

morning
morning the brood forsook their nest, and were flying round the village. From this day I never saw one of the swallow kind till November the third; when twenty, or perhaps thirty, house-martins were playing all day long by the side of the hanging wood, and over my fields. Did these small weak birds, some of which were nestlings twelve days ago, shift their quarters at this late season of the year to the other side of the northern tropic? Or rather, is it not more probable that the next church, ruin, chalk-cliff, steep covert, or perhaps sandbank, lake or pool (as a more northern naturalist would say), may become their *hybernaculum*, and afford them a ready and obvious retreat?

We now begin to expect our vernal migration of ring-ouzels every week. Persons worthy of credit assure me that ring-ouzels were seen at *Christmas 1770* in the forest of Bere, on the southern verge of this county. Hence we may conclude that their migrations are only internal, and not extended to the continent southward, if they do at first come at all from the northern parts of this island only, and not from the north of Europe. Come from whence they will, it is plain, from the fearles disregard that they flew for men or guns, that they have been little accustomed to places of much resort. Navigators mention that in the *Isle of Ascension*, and other such desolate districts, birds are so little acquainted with the human form that they settle on men's shoulders; and have no more dread of a sailor than they would have of a goat that was grazing. A young man at *Leaves*, in *Suffex*, assured me that about seven years ago ring-ouzels abounded so about that town in the autumn that he killed sixteen himself in one afternoon: he added further, that some had appeared since in every autumn; but he could not find that any had been observed before the season in which he shot so many. I myself have found these birds in little
OF SELBORNE.

little parties in the autumn cantoned all along the Suffolk downs, wherever there were shrubs and bushes, from Chichester to Lewes; particularly in the autumn of 1770. I am, &c.

LETTER XXXIX.

TO THE SAME.

DEAR SIR,

Selborne, Nov. 9, 1773.

As you desire me to send you such observations as may occur, I take the liberty of making the following remarks, that you may, according as you think me right or wrong, admit or reject what I here advance, in your intended new edition of the British Zoology.

The osprey was shot about a year ago at Fringham-pond, a great lake, at about six miles from hence, while it was sitting on the handle of a plough and devouring a fish: it used to precipitate itself into the water, and so take it's prey by surprisfe.

A great ash-coloured butcher-bird was shot last winter in Tisted-park, and a red backed butcher-bird at Selborne: they are rare aves in this county.

Crows go in pairs the whole year round.

Cornish choughs abound, and breed on Beachy-head and on all the cliffs of the Suffolk coast.

1 British Zoology, vol. 1, p. 128. 2 p. 161. 3 p. 167. 4 p. 198.  O The
The common wild-pigeon, or stock-dove, is a bird of passage in the south of England, seldom appearing till towards the end of November; is usually the latest winter-bird of passage. Before our beechen woods were so much destroyed we had myriads of them, reaching in fhrings for a mile together as they went out in a morning to feed. They leave us early in spring; where do they breed?

The people of Hampshire and Sussex call the miffel-bird the storm-cock, because it sings early in the spring in blowing showery weather; it’s song often commences with the year: with us it builds much in orchards.

A gentleman affurers me he has taken the nefts of ring-oufels on Dartmoor: they build in banks on the fides of streams.

Titlarks not only sing sweetly as they fit on trees, but also as they play and toy about on the wing; and particularly while they are descending, and sometimes as they fland on the ground.

Adanfon’s testimony seems to me to be a very poor evidence that European swallows migrate during our winter to Senegal: he does not talk at all like an ornithologist; and probably faw only the swallows of that country, which I know build within Governor O’Hara’s hall againft the roof. Had he known European swallows, would he not have mentioned the species?

The house-swallow washes by dropping into the water as it flies: this species appears commonly about a week before the house-martin, and about ten or twelve days before the swift.

In 1772 there were young house-martins in their neft till October the twenty-third.

1 p. 216.  
2 p. 243.  
3 p. 229.  
5 p. 224.  
6 244.
The *swift* appears about ten or twelve days later than the house-swallow: viz. about the twenty-fourth or twenty-sixth of April.

*Whin-chats* and *flone-chatters* fly with us the whole year.

Some wheat-ears continue with us the winter through.

Wagtails, all sorts, remain with us all the winter.

Bulfinches, when fed on hempseed, often become wholly black.

We have vast flocks of *female* chaffinches all the winter, with hardly any males among them.

When you say that in breeding-time the cock-snipes make a bleating noise, and I a drumming (perhaps I should have rather said an humming), I suspect we mean the same thing. However, while they are playing about on the wing they certainly make a loud piping with their mouths: but whether that bleating or humming is ventriloquous, or proceeds from the motion of their wings, I cannot say; but this I know, that when this noise happens the bird is always descending, and his wings are violently agitated.

Soon after the lapwings have done breeding they congregate, and, leaving the moors and marshes, betake themselves to downs and heep-walks.

Two years ago last spring the little auk was found alive and unhurt, but fluttering and unable to rise, in a lane a few miles from *Alresford*, where there is a great lake: it was kept awhile, but died.

I saw young teals taken alive in the ponds of *Wolmer-forest* in the beginning of July last, along with flappers, or young wild-ducks.
Speaking of the *swift*,¹ that page says "it's drink the dew;" whereas it should be "it drinks on the wing;" for all the swallow kind sip their water as they sweep over the face of pools or rivers: like *Virgil’s* bees, they drink flying; "*flumina summa libant.*" In this method of drinking perhaps this genus may be peculiar.

Of the *fedge-bird*⁺ be pleased to say it sings most part of the night; it’s notes are hurrying, but not unpleasing, and imitative of several birds; as the sparrow, swallow, sky-lark. When it happens to be silent in the night, by throwing a stone or clod into the bushes where it sits you immediately set it a singing; or in other words, though it flumbers sometimes, yet as soon as it is awakened it reassumes it’s song.

**LETTER XL.**

**TO THE SAME.**

DEAR SIR,

SELBORNE, Sept. 2, 1774.

Before your letter arrived, and of my own accord, I had been remarking and comparing the tails of the male and female swallow, and this ere any young broods appeared; so that there was no danger of confounding the dams with their *pulli*: and besides, as they were then always in pairs, and busied in the employ of nidification, there could be no room for mistaking the sexes, nor the individuals of different chimneys the one for the other. From all my observations, it constantly appeared that each sex

¹ p. 15.  "m p. 16."
OF SELBORNE.

has the long feathers in it's tail that give it that forked shape; with this difference, that they are longer in the tail of the male than in that of the female.

Nightingales, when their young first come abroad, and are helpless, make a plaintive and a jarring noise; and also a snapping or cracking, pursuing people along the hedges as they walk: these last sounds seem intended for menace and defiance.

The grasshopper-lark chirps all night in the height of summer.

Swans turn white the second year, and breed the third.

Weasels prey on moles, as appears by their being sometimes caught in mole-traps.

Sparrow-hawks sometimes breed in old crows' nests, and the kestril in churches and ruins.

There are supposed to be two sorts of eels in the island of Ely. The threads sometimes discovered in eels are perhaps their young; the generation of eels is very dark and mysterious.

Hen-harriers breed on the ground, and seem never to settle on trees.

When redstarts shake their tails they move them horizontally, as dogs do when they fawn: the tail of a wagtail, when in motion, bobs up and down like that of a jaded horse.

Hedge-sparrows have a remarkable flirt with their wings in breeding-time; as soon as frosty mornings come they make a very piping plaintive noise.

Many birds which become silent about Midsummer reassume their notes again in September; as the thrush, blackbird, woodlark, willow-wren, &c.; hence August is by much the most mute month, the spring, summer, and autumn through. Are birds induced to sing again because the temperament of autumn resembles that of spring?

Linnaeus
Linnæus ranges plants geographically; palms inhabit the tropics, grasse the temperate zones, and mosses and lichens the polar circles; no doubt animals may be clasfed in the same manner with propriety.

House-sparrows build under eaves in the spring; as the weather becomes hotter they get out for coolness, and nest in plum-trees and apple-trees. These birds have been known sometimes to build in rooks' nests, and sometimes in the forks of boughs under rooks' nests.

As my neighbour was housing a rick he observed that his dogs devoured all the little red mice that they could catch, but rejected the common mice; and that his cats ate the common mice, refusing the red.

Red-breasts sing all through the spring, summer, and autumn. The reason that they are called autumn songsters is, because in the two first seasons their voices are drowned and lost in the general chorus; in the latter their song becomes distinguishable. Many songsters of the autumn seem to be the young cock red-breasts of that year: notwithstanding the prejudices in their favour, they do much mischief in gardens to the summer-fruits.

The titmoufe, which early in February begins to make two quaint notes, like the whetting of a saw, is the marsh titmoufe: the great titmoufe sings with three cheerful joyous notes, and begins about the same time.

Wrens sing all the winter through, frost excepted.

House-martins came remarkably late this year both in Hampshire and Devonshire: is this circumstance for or against either hiding or migration?

They eat also the berries of the ivy, the honey-fuckle, and the euonymus europæus, or spindle-tree.
Most birds drink sipping at intervals; but pigeons take a long continued draught, like quadrupeds.

Notwithstanding what I have said in a former letter, no grey crows were ever known to breed on Dartmoor; it was my mistake.

The appearance and flying of the *scarabæus fyllíthialis*, or fern-chafher, commence with the month of July, and cease about the end of it. These scarabs are the constant food of *caprimulgí*, or fern owls, through that period. They abound on the chalky downs and in some sandy districts, but not in the clays.

In the garden of the Black-bear inn in the town of Reading is a stream or canal running under the stables and out into the fields on the other side of the road: in this water are many carps, which lie rolling about in fight, being fed by travellers, who amuse themselves by tossing them bread: but as soon as the weather grows at all severe these fishes are no longer seen, because they retire under the stables, where they remain till the return of spring. Do they lie in a torpid state? if they do not, how are they supported?

The note of the white-throat, which is continually repeated, and often attended with odd gesticulations on the wing, is harsh and displeasing. These birds seem of a pugnacious disposition; for they sing with an erected crest and attitudes of rivalry and defiance; are shy and wild in breeding-time, avoiding neighbourhoods, and haunting lonely lanes and commons; nay even the very tops of the Sussex-downs, where there are bushes and covert; but in July and August they bring their broods into gardens and orchards, and make great havock among the summer-fruits.

The black-cap has in common a full, sweet, deep, loud, and wild pipe; yet that strain is of short continuance, and his motions are defultory; but when that bird sits calmly and engages in song
in earnest, he pours forth very sweet, but inward melody, and expresses great variety of soft and gentle modulations, superior perhaps to those of any of our warblers, the nightingale excepted.

Black-caps mostly haunt orchards and gardens; while they warble their throats are wonderfully distended.

The song of the redstart is superior, though somewhat like that of the white-throat: some birds have a few more notes than others. Sitting very placidly on the top of a tall tree in a village, the cock sings from morning to night: he affects neighbourhoods, and avoids solitude, and loves to build in orchards and about houses; with us he perches on the vane of a tall maypole.

The fly-catcher is of all our summer birds the most mute and the most familiar; it also appears the last of any. It builds in a vine, or a sweetbriar, against the wall of an house, or in the hole of a wall, or on the end of a beam or plate, and often close to the post of a door where people are going in and out all day long. This bird does not make the least pretension to song, but uses a little inward wailing note when it thinks it's young in danger from cats or other annoyances: it breeds but once, and retires early.

Selborne parish alone can and has exhibited at times more than half the birds that are ever seen in all Sweden; the former has produced more than one hundred and twenty species, the latter only two hundred and twenty-one. Let me add also that it has shewn near half the species that were ever known in Great-Britian.

On a retrospect, I observe that my long letter carries with it a quaint and magisterial air, and is very sententious; but, when I recollect that you requested stricture and anecdote, I hope you will pardon the didactic manner for the sake of the information it may happen to contain.

P Sweden 221, Great-Britian 252 species.
It is matter of curious inquiry to trace out how those species of soft-billed birds, that continue with us the winter through, subsist during the dead months. The imbecility of birds seems not to be the only reason why they shun the rigour of our winters; for the robust wry-neck (so much resembling the hardy race of wood-peckers) migrates, while the feeble little golden-crowned wren, that shadow of a bird, braves our severest frosts without availing himself of houses or villages, to which most of our winter-birds crowd in distressful seasons, while this keeps aloof in fields and woods; but perhaps this may be the reason why they may often perish, and why they are almost as rare as any bird we know.

I have no reason to doubt but that the soft-billed birds, which winter with us, subsist chiefly on insects in their aurelia state. All the species of wagtails in severe weather haunt shallow streams near their spring-heads, where they never freeze; and, by wading, pick out the aurelias of the genus of Phryganæ, &c.

Hedge-sparrows frequent sinks and gutters in hard weather, where they pick up crumbs and other sweepings: and in mild weather they procure worms, which are stirring every month in the year, as any one may see that will only be at the trouble of taking a candle to a grass-plot on any mild winter's night. Red-breasts and wrens in the winter haunt out-houses, stables, and barns,

* See Derham's Physico-theology, p. 235.
where they find spiders and flies that have laid themselves up during the cold season. But the grand support of the soft-billed birds in winter is that infinite profusion of *aureliae* of the *lepidoptera* *ordo*, which is fastened to the twigs of trees and their trunks; to the pales and walls of gardens and buildings; and is found in every cranny and cleft of rock or rubbish, and even in the ground itself.

Every species of titmouse winters with us; they have what I call a kind of intermediate bill between the hard and the soft, between the Linnean genera of *fringilla* and *motacilla*. One species alone spends its whole time in the woods and fields, never retreating for succour in the severest seasons to houses and neighbourhoods; and that is the delicate long-tailed titmouse, which is almost as minute as the golden-crowned wren: but the blue titmouse, or nun (*parus caeruleus*), the cole-mouse (*parus ater*), the great black-headed titmouse (*fringilla*), and the marsh titmouse (*parus palustris*), all refort, at times, to buildings; and in hard weather particularly. The great titmouse, driven by stress of weather, much frequents houses; and, in deep snows, I have seen this bird, while it hung with its back downwards (to my no small delight and admiration), draw straws lengthwise from out the eaves of thatched houses, in order to pull out the flies that were concealed between them, and that in such numbers that they quite defaced the thatch, and gave it a ragged appearance.

The blue titmouse, or nun, is a great frequenter of houses, and a general devourer. Besides insects, it is very fond of flesh; for it frequently picks bones on dunghills: it is a vast admirer of sue, and haunts butchers' shops. When a boy, I have known twenty in a morning caught with snap mouse-traps, baited with tallow or suet. It will also pick holes in apples left on the ground, and be
be well entertained with the feeds on the head of a sun-flower. The blue, marsh, and great titmice will, in very severe weather, carry away barley and oat straws from the sides of ricks.

How the *wheat-ear* and *whin-chat* support themselves in winter cannot be so easily ascertained, since they spend their time on wild heaths and warrens; the former especially, where there are stone quarries: most probably it is that their maintenance arises from the *aurelia* of the *lepidoptera ordo*, which furnish them with a plentiful table in the wildernefs.

I am, &c.

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**LETTER XLII.**

**TO THE SAME.**

**DEAR SIR,**

*Selborne, March 9, 1775.*

Some future *faunift*, a man of fortune, will, I hope, extend his visits to the kingdom of *Ireland*; a new field, and a country little known to the naturalist. He will not, it is to be wished, undertake that tour unaccompanied by a botanist, because the mountains have scarcely been sufficiently examined; and the southerly counties of so mild an island may possibly afford some plants little to be expected within the *Britifh* dominions. A person of a thinking turn of mind will draw many just remarks from the modern improvements of that country, both in arts and agriculture, where premiums obtained long before they were heard of with us. The manners of the wild natives, their *superstitious*, their prejudices,
their fordid way of life, will extort from him many useful reflections. He should also take with him an able draughtsman; for he must by no means pass over the noble castles and seats, the extensive and picturesque lakes and waterfalls, and the lofty stupendous mountains, so little known, and so engaging to the imagination when described and exhibited in a lively manner: such a work would be well received.

As I have seen no modern map of Scotland, I cannot pretend to say how accurate or particular any such may be; but this I know, that the best old maps of that kingdom are very defective.

The great obvious defect that I have remarked in all maps of Scotland that have fallen in my way is, a want of a coloured line, or stroke, that shall exactly define the just limits of that district called The Highlands. Moreover, all the great avenues to that mountainous and romantic country want to be well distinguished. The military roads formed by general Wade are so great and Roman-like an undertaking that they well merit attention. My old map, Moll's Map, takes notice of Fort William; but could not mention the other forts that have been erected long since: therefore a good representation of the chain of forts should not be omitted.

The celebrated zigzag up the Corryarich must not be passed over. Moll takes notice of Hamilton and Drumlanrig, and such capital houses; but a new survey, no doubt, should represent every seat and castle remarkable for any great event, or celebrated for it's paintings, &c. Lord Breadalbane's feat and beautiful policy are too curious and extraordinary to be omitted.

The feat of the Earl of Eglinton, near Glasgow, is worthy of notice. The pine-plantations of that nobleman are very grand and extensive indeed.

I am, &c.

LETTER
A pair of honey-buzzards, buteo apivorus, five vesparus Rayi, built them a large shallow nest, composed of twigs and lined with dead beechen leaves, upon a tall slender beech near the middle of Selborne-hanger, in the summer of 1780. In the middle of the month of June a bold boy climbed this tree, though standing on so steep and dizzy a situation, and brought down an egg, the only one in the nest, which had been sat on for some time, and contained the embryo of a young bird. The egg was smaller, and not so round as those of the common buzzard; was dotted at each end with small red spots, and surrounded in the middle with a broad bloody zone.

The hen-bird was shot, and answered exactly to Mr. Ray's description of that species; had a black cere, short thick legs, and a long tail. When on the wing this species may be easily distinguished from the common buzzard by its hawk-like appearance, small head, wings not so blunt, and longer tail. This specimen contained in its claw some limbs of frogs and many grey snails without shells. The irides of the eyes of this bird were of a beautiful bright yellow colour.

About the tenth of July in the same summer a pair of sparrow-hawks bred in an old crow's nest on a low beech in the same hanger; and as their brood, which was numerous, began to grow up,
up, became so daring and ravenous, that they were a terror to all the dames in the village that had chickens or ducklings under their care. A boy climbed the tree, and found the young so fledged that they all escaped from him; but discovered that a good house had been kept: the larder was well-stored with provisions; for he brought down a young blackbird, jay, and house-martin, all clean picked, and some half devoured. The old birds had been observed to make sad havoc for some days among the new-flown swallows and martins, which, being but lately out of their nests, had not acquired those powers and command of wing that enable them, when more mature, to set such enemies at defiance.

LETTER XLIV.

TO THE SAME.

DEAR SIR,

Selborne, Nov. 30, 1780.

Every incident that occasions a renewal of our correspondence will ever be pleasing and agreeable to me.

As to the wild wood-pigeon, the oenas, or vinago, of Ray, I am much of your mind; and see no reason for making it the origin of the common house-dove: but suppose those that have advanced that opinion may have been misled by another appellation, often given to the oenas, which is that of flock-dove,

Unles
OF SELBORNE.

Unless the flock-dove in the winter varies greatly in manners from itself in summer, no species seems more unlikely to be domesticated, and to make an house-dove. We very rarely see the latter settle on trees at all, nor does it ever haunt the woods; but the former, as long as it stays with us, from November perhaps to February, lives the same wild life with the ring-dove, palumbus torquatus; frequents coppices and groves, supports itself chiefly by malth, and delights to root in the tallest beeches. Could it be known in what manner flock-doves build, the doubt would be settled with me at once, provided they construct their nests on trees, like the ring-dove, as I much suspect they do.

You received, you say, last spring a flock-dove from Sussex; and are informed that they sometimes breed in that country. But why did not your correspondent determine the place of it's nidification, whether on rocks, cliffs, or trees? If he was not an adroit ornithologist I should doubt the fact, because people with us perpetually confound the flock-dove with the ring-dove.

For my own part, I readily concur with you in supposing that house-doves are derived from the small blue rock-pigeon, for many reasons. In the first place the wild flock-dove is manifestly larger than the common house-dove, against the usual rule of domestication, which generally enlarges the breed. Again, those two remarkable black spots on the remiges of each wing of the flock-dove, which are so characteristic of the species, would not, one should think, be totally lost by it's being reclaimed; but would often break out among its descendants. But what is worth an hundred arguments is, the instance you give in Sir Roger Molyne's house-doves in Caernarvonshire; which, though tempted by plenty of food and gentle treatment, can never be prevailed on to inhabit
inhabit their cote for any time; but, as soon as they begin to breed, betake themselves to the fastnesses of Ormifhead, and deposit their young in safety amidst the inacceffible caverns, and preci-pices of that stupendous promontory.

"Naturam expellas furca... tamen ufque recurret."

I have consulted a sportsman, now in his seventy-eighth year, who tells me that fifty or sixty years back, when the beechen woods were much more extensive than at present, the number of wood-pigeons was astonifhing; that he has often killed near twenty in a day; and that with a long wild-fowl piece he has shot seven or eight at a time on the wing as they came wheeling over his head: he moreover adds, which I was not aware of, that often there were among them little parties of small blue doves, which he calls rockiers. The food of these numberless emigrants was beech-maft and some acorns; and particularly barley, which they collected in the flubbles. But of late years, since the vaft increase of turnips, that vegetable has furnifhed a great part of their support in hard weather; and the holes they pick in these roots greatly damage the crop. From this food their flefh has contracted a rancidnefs which occasions them to be rejefted by nicer judges of eating, who thought them before a delicate difh. They were shot not only as they were feeding in the fields, and especially in snowy weather, but alfo at the clofe of the evening, by men who lay in ambush among the woods and groves to kill them as they came in to rooff. These are the principal circumstances relating to this

* Some old sportsmen fay that the main part of these flocks used to withdraw as soon as the heavy Chriftmas frofts were over.

wonderful
wonderful internal migration, which with us takes place towards the end of November, and ceases early in the spring. Last winter we had in Selborne high wood about an hundred of these doves; but in former times the flocks were so vast, not only with us but all the district round, that on mornings and evenings they traversed the air, like rooks, in ftrings, reaching for a mile together. When they thus rendezvoused here by thousands, if they happened to be suddenly roused from their roost-trees on an evening,

"Their rising all at once was like the sound
Of thunder heard remote."

It will by no means be foreign to the present purpose to add, that I had a relation in this neighbourhood who made it a practice, for a time, whenever he could procure the eggs of a ring-dove, to place them under a pair of doves that were sitting in his own pigeon-house; hoping thereby, if he could bring about a coalition, to enlarge his breed, and teach his own doves to beat out into the woods and to support themselves by mast: the plan was plausible, but something always interrupted the success; for though the birds were usually hatched, and sometimes grew to half their size, yet none ever arrived at maturity. I myself have seen these foundlings in their nest displaying a strange ferocity of nature, so as scarcely to bear to be looked at, and snapping with their bills by way of menace. In short, they always died, perhaps for want of proper sustenance; but the owner thought that by their fierce and wild demeanour they frightened their foster-mothers, and so were starved.

Virgil, as a familiar occurrence, by way of simile, describes a dove haunting the cavern of a rock in such engaging numbers, that I cannot refrain from quoting the passage: and John Dryden has
NATURAL HISTORY

has rendered it so happily in our language, that without farther excuse I shall add his translation also.

"Qualis speleuncâ subitō commota Columba,
"Cui domus, et dulces latebrofo in pumice nidi,
"Fertur in arva volans, plauflumque exterrita pennis
"Dat tecto ingentem—mox aere lapfa quieto,
"Radit iter liquidum, celeres neque commovet alas."

"As when a dove her rocky hold forfakes,
"Rous'd, in a fright her founding wings she shakes;
"The cavern rings with clattering:—out she flies,
"And leaves her callow care, and cleaves the skies:
"At firft she flutters:—but at length she springs
"To smoother flight, and shoots upon her wings."

I am, &c.

LETTER
OF SELBORNE.

LETTER I.

TO THE HONOURABLE DAINES BARRINGTON.

DEAR SIR,

Selborne, June 30, 1769.

When I was in town last month I partly engaged that I would sometime do myself the honour to write to you on the subject of natural history: and I am the more ready to fulfil my promise, because I see you are a gentleman of great candour, and one that will make allowances; especially where the writer professes to be an out-door naturalist, one that takes his observations from the subject itself, and not from the writings of others.

The following is a List of the Summer Birds of Passage which I have discovered in this neighbourhood, ranged somewhat in the order which they appear:

RAII NOMINA. | USUALLY APPEARS ABOUT
---|---
8. Cuckoo, Cuculus: | Middle of April.
9. Middle willow-wren, Regulus non cristatus: | Ditto: a sweet plaintive note.
10. White-throat, Ficedula affinis: | Ditto: mean note; sings on till September.

Red-start,
This assemblage of curious and amusing birds belongs to ten several genera of the Linnean system; and are all of the ordo of passeres sive the jynx and cuculus, which are picae, and the charadrius (oedicnemus) and rallus (ortygometra), which are grallae.

These birds, as they stand numerically, belong to the following Linnean genera:

1. Jynx:
2, 6, 7, 9, 10, 11, 16, 18. Motacilla:
3, 4, 5, 15.
8.
12. Charadrius:
13. Columba:
17. Rallus:
19. Caprimulgus:
14. Alauda:
20. Muscicapa.

Most
Most soft-billed birds live on insects, and not on grain and seeds; and therefore at the end of summer they retire: but the following soft-billed birds, though insect-eaters, stay with us the year round:

RAII NOMINA.

Redbreast, Rubecula: { These frequent houses; and haunt out-buildings in the winter: eat spiders.
Wren, Passer troglodytes: { Haunt sinks for crumbs and other sweepings.
Hedge-sparrow, Curruca: { These frequent shallow rivulets near the spring heads, where they never freeze: eat the aurelia of Phryganea. The smallest birds that walk.
White-wagtail, Yellow wagtail, Grey wagtail, Motacilla alba: Motacilla flava: Motacilla cinerea: { Some of these are to be seen with us the winter through.
Wheat-ear, Oenanthe: { This is the smallest British bird: haunts the tops of tall trees; stays the winter through.
Whin-chat, Oenanthe jacunda: 
Stone-chatter, Oenanthe tertia.

Golden-crowned wren, Regulus cristatus.

A List of the Winter Birds of Passage round this neighbourhood, ranged somewhat in the order in which they appear:

RAII NOMINA.

1. Ring-ouzel, Merula torquata: { This is a new migration, which I have lately discovered about Michaelmas week, and again about the fourteenth of March.
2. Redwing, Turdus iliacus: About old Michaelmas.
3. Fieldfare, Turdus pilaris: { Though a percher by day, roosts on the ground.
4. Royfton-crow, Cornix cinerea: Most frequent on downs,
5. Woodcock, Scolopax: Appears about old Michaelmas.
7. Jack-snipe, Gallinago minima: Seldom appears till late: not in such plenty as formerly.
8. Wood-pigeon Oenas: 
9. Wild-
These birds, as they stand numerically, belong to the following Linnaean genera:

| 1, 2, 3, Turdus: | 9, 10, 11, 12, 13, 14, Anas: |
| 4, Corvus:       |                              |
| 5, 6, 7, Scolopax: | 15, 16, Loxia:               |
| 8, Columba:      | 17, Ampelis:                 |

Birds that sing in the night are but few.

Nightingale, _Luscinia_: "In shadiest covert hid," _Milton_.
Woodlark, _Alauda arboea_: Suspended in mid air.
Less reed-sparrow, _Pafser arundinaceus minor_: Among reeds and willows.

I should now proceed to such birds as continue to sing after _Midsummer_, but, as they are rather numerous, they would exceed the bounds of this paper: besides, as this is now the season for remarking on that subject, I am willing to repeat my observations on some birds concerning the continuation of whose song I seem at present to have some doubt.

I am, &c.
OF SELBORNE.

LETTER II.

TO THE SAME.

DEAR SIR,

SELBORNE, Nov. 2, 1769.

WHEN I did myself the honour to write to you about the end of last June on the subject of natural history, I sent you a lift of the summer-birds of passage which I have observed in this neighbourhood; and also a lift of the winter-birds of passage: I mentioned besides those soft-billed birds that stay with us the winter through in the south of England, and those that are remarkable for singing in the night.

According to my proposal, I shall now proceed to such birds (singing birds strictly so called) as continue in full song till after Midsummer; and shall range them somewhat in the order in which they first begin to open as the spring advances.

RAII NOMINA.

1. Wood-lark, Alauda arborea:  
   In January, and continues to sing through all the summer and autumn.

2. Song-thrush, Turdus simpliciter dictus:  
   In February and on to August, reassume their song in autumn.

3. Wren, Passer trochilus:  
   All the year, hard frost excepted.
   Ditto.

4. Redbreast, Rubecula:  
   Early in February to July the 10th.

5. Hedge-sparrow, Curruca:  
   Early in February, and on through July to August the 21st.

6. Yellowhammer, Emberiza flava:  
   In February, and on to October.

7. Skylark, Alauda vulgaris:  
   From April to September.

8. Swallow, Hirundo domestica:  
   Beginning of April to July 13th.

9. Black-cap, Atricephilla:  

10. Titlark,
110. Titlark, *Alauda pratorum*:
12. White-throat, *Ficedula affinis*:
15. Lees reed-sparrow, *Pisser avundinaccus minor*:

Birds that cease to be in full song, and are usually silent at or before Midsummer:

17. Middle willow-wren, *Regulus non cristatus*:
18. Redshank, *Ruticilla*:

Birds that sing for a short time, and very early in the spring:

22. Great titmouse, or ox-eye, *Fringillago*:

From middle of April to July the 16th,
Sometimes in February and March, and on to July the twenty-third; resumes in autumn.
In April, and on to July 23.
April, and through to September 16.
On to July and August 2.
May, on to beginning of July.
Breeds and whistles on till August; resumes it's note when they begin to congregate in October, and again early before the flocks separate.

January the 2d, 1776, in February.
Is called in Hampshire and Sussex the storm-cock, because it's song is supposted to forebode windy wet weather: is the largest singeing bird we have.

In February, March, April: resumes for a short time in September.
OF SELBORNE.

Birds that have somewhat of a note or song, and yet are hardly to be called singing birds:

RAII NOMINA.

23. Golden-crowned wren, Regulus cristatus: It's note as minute as it's person; frequents the tops of high oaks and firs: the smallest British bird.


25. Small willow-wren, Regulus non cristatus: Sings in March, and on to September.

26. Large ditto, Ditto: Cantat voce fridulâ locutüs; from end of April to August.

27. Grasshopper-lark, Alauda minima voce locutüs: Chirps all night, from the middle of April to the end of July.

28. Martin, Hirundo agrestis: All the breeding time; from May to September.

29. Bullfinch, Pyrrhula.

30. Bunting, Emberiza alba: From the end of January to July.

All singing birds, and those that have any pretensions to song, not only in Britain, but perhaps the world through, come under the Linnean ordo of passeres.

The above-mentioned birds, as they stand numerically, belong to the following Linnean genera.

Birds that sing as they fly are but few.

RAII NOMINA.

Skylark,  
Alauda vulgaris:  
Rising, suspended, and falling.

Titlark,  
Alauda pratorum:  
In its descent; also sitting on trees, and walking on the ground.

Woodlark,  
Alauda arborea:  
Suspended; in hot summer nights all night long.

Blackbird,  
Merula:  
Sometimes from bush to bush.

White-throat,  
Ficedula affinis:  
Uses when singing on the wing odd jerks and gesticulations.

Swallow,  
Hirundo domestica:  
In soft funny weather.

Wren,  
Passer troglodytes:  
Sometimes from bush to bush.

Birds that breed most early in these parts:

Raven,  
Corvus:  
Hatches in February and March.

So g. thrush,  
Turdus:  
In March.

Blackbird,  
Merula:  
In March.

Rook,  
Corvus frugilega:  
Builds the beginning of March.

Woodlark,  
Alauda arboea:  
Hatches in April.

Ring dove,  
Palumbus torquatus:  
Lays the beginning of April.

All birds that continue in full song till after Midsummer appear to me to breed more than once.

Most kinds of birds seem to me to be wild and fly somewhat in proportion to their bulk; I mean in this island, where they are much pursued and annoyed: but in Ascension Island, and many other desolate places, mariners have found fowls so unacquainted with an human figure, that they would stand still to be taken; as is the case with boobies, &c. As an example of what is advanced, I remark that the golden-crested wren (the smallest British bird) will stand unconcerned till you come within three or four yards of it, while the bustard (otis), the largest British land fowl, does not care to admit a person within so many furlongs. I am, &c.
OF SELBORNE.

LETTER III.

TO THE SAME.

DEAR SIR,  Selborne, Jan 15, 1770.

It was no small matter of satisfaction to me to find that you were not displeased with my little methodus of birds. If there was any merit in the sketch, it must be owing to its punctuality. For many months I carried a lift in my pocket of the birds that were to be remarked, and, as I rode or walked about my business, I noted each day the continuance or omission of each bird's song; so that I am as sure of the certainty of my facts as a man can be of any transmigration whatsoever.

I shall now proceed to answer the several queries which you put in your two obliging letters, in the best manner that I am able. Perhaps Eastwick, and its environs, where you heard so very few birds, is not a woodland country, and therefore not flocked with such songsters. If you will cast your eye on my last letter, you will find that many species continued to warble after the beginning of July.

The titlark and yellowhammer breed late, the latter very late; and therefore it is no wonder that they protract their song: for I lay it down as a maxim in ornithology, that as long as there is any incubation going on there is music. As to the redbreast and wren, it is well known to the most incurious observer that they whistle the year round, hard frost excepted; especially the latter.

R 2

It
It was not in my power to procure you a black-cap, or a less reed-sparrow, or sedge-bird, alive. As the first is undoubtedly, and the last, as far as I can yet see, a summer bird of passage, they would require more nice and curious management in a cage than I should be able to give them: they are both distinguished songsters. The note of the former has such a wild sweetness that it always brings to my mind those lines in a song in "As You Like It."

"And tune his merry note
Unto the wild bird's throat." Shakespeare.

The latter has a surprising variety of notes resembling the song of several other birds; but then it has also an hurrying manner, not at all to it's advantage: it is notwithstanding a delicate polyglot.

It is new to me that titlarks in cages sing in the night; perhaps only caged birds do so. I once knew a tame redbreast in a cage that always sang as long as candles were in the room; but in their wild state no one supposes they sing in the night.

I should be almost ready to doubt the fact, that there are to be seen much fewer birds in July than in any former month, notwithstanding so many young are hatched daily. Sure I am that it is far otherwise with respect to the swallow tribe, which increases prodigiously as the summer advances: and I saw, at the time mentioned, many hundreds of young wagtails on the banks of the Cherwell, which almost covered the meadows. If the matter appears as you say in the other species, may it not be owing to the dams being engaged in incubation, while the young are concealed by the leaves?
Many times have I had the curiosity to open the stomachs of woodcocks and snipes; but nothing ever occurred that helped to explain to me what their subsistence might be: all that I could ever find was a soft mucus, among which lay many pellucid small gravels.

I am, &c.

LETTER IV.

TO THE SAME.

DEAR SIR,

Selborne, Feb. 19, 1770.

Your observation that "the cuckoo does not deposit its egg indiscriminately in the nest of the first bird that comes in its way, but probably looks out a nurse in some degree congenorous, with whom to intrust its young," is perfectly new to me; and struck me so forcibly, that I naturally fell into a train of thought that led me to consider whether the fact was so, and what reason there was for it. When I came to recollect and inquire, I could not find that any cuckoo had ever been seen in these parts, except in the nest of the wagtail, the hedge-sparrow, the titlark, the white-throat, and the redbreast, all soft-billed insectivorous birds. The excellent Mr. Willughby mentions the nest of the palumbus (ring-dove), and of the fringilla (chaffinch), birds that subsist on acorns and grains, and such hard food: but then he does not mention them as of his own knowledge; but says afterwards
wards that he saw himself a wagtail feeding a cuckoo. It appears hardly possible that a soft-billed bird should subsist on the same food with the hard-billed: for the former have thin membranaceous stomachs suited to their soft food; while the latter, the granivorous tribe, have strong muscular gizzards, which, like mills, grind, by the help of small gravels and pebbles, what is swallowed. This proceeding of the cuckoo, of dropping its eggs as it were by chance, is such a monstrous outrage on maternal affection, one of the first great dictates of nature; and such a violence on instinct; that, had it only been related of a bird in the Brasis, or Peru, it would never have merited our belief. But yet, should it farther appear that this simple bird, when divested of that natural propriety that seems to raise the kind in general above themselves, and inspire them with extraordinary degrees of cunning and address, may be still endowed with a more enlarged faculty of discerning what species are suitable and congenerous nursing-mothers for its disregarded eggs and young, and may deposit them only under their care, this would be adding wonder to wonder, and instancing, in a fresh manner, that the methods of Providence are not subjected to any mode or rule, but astonish us in new lights, and in various and changeable appearances.

What was said by a very ancient and sublime writer concerning the defect of natural affection in the ostrich, may be well applied to the bird we are talking of:

"She is hardened against her young ones, as though they were not her’s:

"Because God hath deprived her of wisdom, neither hath he imparted to her understanding.""

s Job xxxix. 16, 17.

Query.
Query. Does each female cuckoo lay but one egg in a season, or does she drop several in different nests according as opportunity offers? I am, &c.

LETTER V.

TO THE SAME.

DEAR SIR,

Selborne, April 12, 1770.

I heard many birds of several species sing last year after Midsummer; enough to prove that the summer solstice is not the period that puts a stop to the music of the woods. The yellowhammer no doubt persists with more steadiness than any other; but the woodlark, the wren, the redbreast, the swallow, the white-throat, the goldfinch, the common linnet, are all undoubted instances of the truth of what I advanced.

If this severe season does not interrupt the regularity of the summer migrations, the blackcap will be here in two or three days. I wish it was in my power to procure you one of those songsters; but I am no birdcatcher; and so little used to birds in a cage, that I fear if I had one it would soon die for want of skill in feeding.
Was your reed-fsparrow, which you kept in a cage, the thick-billed reed-fsparrow of the Zoology, p. 320; or was it the less reed-fsparrow of Ray, the *edge-bird* of Mr. Pennant's last publication, p. 16?

As to the matter of long-billed birds growing fatter in moderate frosts, I have no doubt within myself what should be the reason. The thriving at these times appears to me to arise altogether from the gentle check which the cold throws upon insensible perspiration. The case is just the same with blackbirds, &c.; and farmers and warreners observe, the first, that their hogs fat more kindly at such times, and the latter that their rabbits are never in such good case as in a gentle frost. But when frosts are severe, and of long continuance, the case is soon altered; for then a want of food soon overbalances the repletion occasioned by a checked perspiration. I have observed, moreover, that some human constitutions are more inclined to plumpness in winter than in summer.

When birds come to suffer by severe frost, I find that the first that fail and die are the redwing-fieldfares, and then the long-thrushes.

You wonder, with good reason, that the hedge-fsparrows, &c. can be induced at all to sit on the egg of the cuckoo without being scandalized at the vast disproportioned size of the supposititious egg; but the brute creation, I suppose, have very little idea of size, colour, or number. For the common hen, I know, when the fury of incubation is on her, will sit on a single shapeless stone instead of a nest full of eggs that have been withdrawn: and, moreover, a hen-turkey, in the same circumstances, would sit on in the empty nest till she perished with hunger.

I think the matter might easily be determined whether a cuckoo lays one or two eggs, or more, in a season, by opening a female during
OF SELBORNE.

during the laying-time. If more than one was come down out of
the ovary, and advanced to a good size, doubtless then she would
that spring lay more than one.

I will endeavour to get a hen, and to examine.

Your supposition that there may be some natural obstruction in
singing birds while they are mute, and that when this is removed
the song recommences, is new and bold: I wish you could dis-
cover some good grounds for this suspicion.

I was glad you were pleased with my specimen of the caprimulgus,
or fern-owl; you were, I find, acquainted with the bird before.

When we meet I shall be glad to have some conversation with
you concerning the proposal you make of my drawing up an account
of the animals in this neighbourhood. Your partiality towards my
small abilities persuades you, I fear, that I am able to do more
than is in my power: for it is no small undertaking for a
man unsupported and alone to begin a natural history from his
own autobiography! Though there is endless room for observation in
the field of nature, which is boundless, yet investigation (where a
man endeavours to be free of his facts) can make but slow pro-
gress; and all that one could collect in many years would go into
a very narrow compass.

Some extracts from your ingenious "Investigations of the dif-
ference between the present temperature of the air in Italy," &c.
have fallen in my way; and gave me great satisfaction: they have removed the objections that always arose in my
mind whenever I came to the passages which you quote. Surely
the judicious Virgil, when writing a didactic poem for the region
of Italy, could never think of describing freezing rivers, unless
such severity of weather pretty frequently occurred!

P. S. Swallows appear amidst snows and frost.

S L E T T E R
Dear Sir,

Selborne, May 21, 1770.

The severity and turbulence of last month so interrupted the regular process of summer migration, that some of the birds do but just begin to shew themselves, and others are apparently thinner than usual; as the white-throat, the black-cap, the redstart, the fly-catcher. I well remember that after the very severe spring in the year 1739-40 summer birds of passage were very scarce. They come probably hither with a south-east wind, or when it blows between those points; but in that unfavourable year the winds blew the whole spring and summer through from the opposite quarters. And yet amidst all these disadvantages two swallows, as I mentioned in my last, appeared this year as early as the eleventh of April amidst frost and snow; but they withdrew again for a time.

I am not pleased to find that some people seem so little satisfied with Scopoli's new publication; there is room to expect great things from the hands of that man, who is a good naturalist: and one would think that an history of the birds of so distant and southern a region as Carniola would be new and interesting. I could wish to see that work, and hope to get it sent down. Dr. Scopoli is physician to the wretches that work in the quicksilver mines of that district.

When you talked of keeping a reed-sparrow, and giving it seeds, I could not help wondering; because the reed-sparrow which I mentioned to you (*psser arundinaceus minor Ralli*) is a soft-billed bird; and most probably migrates hence before winter;

*This work he calls his *Annus Primus Historico Naturalis.*

whereas
whereas the bird you kept (passer torquatus Rati) abides all the year, and is a thick-billed bird. I question whether the latter be much of a songster; but in this matter I want to be better informed. The former has a variety of hurrying notes, and sings all night. Some part of the song of the former, I suspect, is attributed to the latter. We have plenty of the soft-billed sort; which Mr. Pennant had entirely left out of his British Zoology, till I reminded him of his omission. See British Zoology last published, p. 16.

I have somewhat to advance on the different manners in which different birds fly and walk; but as this is a subject that I have not enough considered, and is of such a nature as not to be contained in a small space, I shall say nothing further about it at present.

No doubt the reason why the sex of birds in their first plumage is so difficult to be distinguished is, as you say, "because they " are not to pair and discharge their parental functions till the " ensuing spring." As colours seem to be the chief external sexual distinction in many birds, these colours do not take place till sexual attachments begin to obtain. And the case is the same in quadrupeds; among whom, in their younger days, the sexes differ but little: but, as they advance to maturity, horns and shaggy manes, beards and brawny necks, &c. &c. strongly discriminate the male from the female. We may instance still farther in our own species, where a beard and stronger features are usually characteristic of the male sex: but this sexual diversity does not take place in earlier life; for a beautiful youth shall be so like a beautiful girl that the difference shall not be discernible;

"Quem si puellarum infereres choro,
Mirè fagaces falleret hospites
Diferimen obscurum, solutis
Crinibus, ambiguus vultu."  

Hor.

* See letter xxv. to Mr. Pennant.  
See letter xliii. to Mr. Barrington.
DEAR SIR,

RINGMER, near LEWES, Oct. 8, 1770.

I am glad to hear that Kuckalm is to furnish you with the birds of Jamaica; a sight of the birundines of that hot and distant island would be a great entertainment to me.

The *Anni* of Scopoli are now in my possession; and I have read the *Annus Primus* with satisfaction: for though some parts of this work are exceptionable, and he may advance some mistaken observations; yet the ornithology of so distant a country as Carniola is very curious. Men that undertake only one distriict are much more likely to advance natural knowledge than those that grasp at more than they can possibly be acquainted with: every kingdom, every province, should have it's own monographer.

The reason perhaps why he mentions nothing of Ray's Ornithology may be the extreme poverty and distance of his country, into which the works of our great naturalist may have never yet found their way. You have doubts, I know, whether this Ornithology is genuine, and really the work of Scopoli: as to myself, I think I discover strong tokens of authenticity; the style corresponds with that of his *Entomology*; and his characters of his Ordines and Genera are many of them new, expressive, and masterly. He has ventured to alter some of the Linnean genera with sufficient shew of reason.

It might perhaps be mere accident that you saw so many swifts and no swallows at Staines; because, in my long observation of those
those birds, I never could discover the least degree of rivalry or hostility between the species.

Ray remarks that birds of the *gallina* order, as cocks and hens, partridges, and pheasants, &c. are *pulveratrices*, such as dust themselves, using that method of cleansing their feathers, and ridding themselves of their vermin. As far as I can observe, many birds that dust themselves never wash: and I once thought that those birds that wash themselves would never dust; but here I find myself mistaken; for common house-sparrows are great *pulveratrices*, being frequently seen grovelling and wallowing in dusty roads; and yet they are great washers. Does not the skylark dust?

Query. Might not Mahomet and his followers take one method of purification from these *pulveratrices*? because I find from travellers of credit, that if a strict musulman is journeying in a sandy desert where no water is to be found, at stated hours he strips off his clothes, and most scrupulously rubs his body over with sand or dust.

A countryman told me he had found a young *fern-owl* in the nest of a small bird on the ground; and that it was fed by the little bird. I went to see this extraordinary phenomenon, and found that it was a young cuckoo hatched in the nest of a titlark: it was become vastly too big for its nest, appearing

\[ \text{in tenui re} \]
\[ \text{Majores pennas nido extenditis} \]

and was very fierce and pugnacious, pursuing my finger, as I teased it, for many feet from the nest, and sparring and buffeting with its wings like a game-cock. The dupe of a dam appeared at a distance, hovering about with meat in its mouth, and expressing the greatest solicitude.
In July I saw several cuckoos skimming over a large pond; and found, after some observation, that they were feeding on the _libellula_, or dragon-flies; some of which they caught as they settled on the weeds, and some as they were on the wing. Notwithstanding what _Linnaeus_ says, I cannot be induced to believe that they are birds of prey.

This district affords some birds that are hardly ever heard of at Selborne. In the first place considerable flocks of _croo-beaks (loxia curvirostris)_ have appeared this summer in the pine-groves belonging to this house; the _water-ouzel_ is said to haunt the mouth of the Leves river, near Newhaven; and the _Cornish chough_ builds, I know, all along the chalky cliffs of the Sussex shore.

I was greatly pleased to see little parties of _ring-ouzels_ (my newly discovered migrants) scattered, at intervals, all along the Sussex downs from Chichester to Lewes. Let them come from whence they will, it looks very suspicious that they are cantoned along the coast in order to pass the channel when severe weather advances. They visit us again in April, as it should seem, in their return; and are not to be found in the dead of winter. It is remarkable that they are very tame, and seem to have no manner of apprehensions of danger from a person with a gun. There are bustards on the wide downs near Brightwellcote. No doubt you are acquainted with the Sussex downs: the prospects and rides round Lewes are most lovely!

As I rode along near the coast I kept a very sharp look out in the lanes and woods, hoping I might, at this time of the year, have discovered some of the summer short-winged birds of passage crowding towards the coast in order for their departure: but it was very extraordinary that I never saw a redstart, white-throat, black-cap, uncrested wren, fly-catcher, &c. And I remember to have made the same remark in former years, as I usually come to this
OF SELBORNE.

this place annually about this time. The birds most common along the coast at present are the stone-chatters, whinchats, buntings, linnets, some few wheat-ears, titlarks, &c. Swallows and house-martins abound yet, induced to prolong their stay by this soft, still, dry season.

A land tortoise, which has been kept for thirty years in a little walled court belonging to the house where I now am visiting, retires under ground about the middle of November, and comes forth again about the middle of April. When it first appears in the spring it discovers very little inclination towards food; but in the height of summer grows voracious: and then as the summer declines it's appetite declines; so that for the last six weeks in autumn it hardly eats at all. Milky plants, such as lettuces, dandelions, sow thistles, are it's favourite dish. In a neighbouring village one was kept till by tradition it was supposed to be an hundred years old. An instance of vast longevity in such a poor reptile!

LETTER VIII.

TO THE SAME.

DEAR SIR,

SELBORNE, Dec. 20, 1770.

The birds that I took for aberdavines were reed-sparrows (Pâteres torquati).

There are doubtless many home internal migrations within this kingdom that want to be better understood: witness those vast flocks of hen chaffinches that appear with us in the winter without hardly any cocks among them. Now was there a due proportion of
of each sex, it should seem very improbable that any one district should produce such numbers of these little birds; and much more when only one half of the species appears: therefore we may conclude that the fringilla celebes, for some good purposes, have a peculiar migration of their own in which the sexes part. Nor should it seem so wonderful that the intercourse of sexes in this species of birds should be interrupted in winter; since in many animals, and particularly in bucks and does, the sexes herd separately, except at the season when commerce is necessary for the continuance of the breed. For this matter of the chaffinches see Fauna Suecica, p. 85, and Systema Naturae, p. 318. I see every winter vast flights of hen chaffinches, but none of cocks.

Your method of accounting for the periodical motions of the British singing birds, or birds of flight, is a very probable one; since the matter of food is a great regulator of the actions and proceedings of the brute creation: there is but one that can be set in competition with it, and that is love. But I cannot quite acquiesce with you in one circumstance when you advance that, "when they have thus feated, they again separate into small parties of five or six, and get the best fare they can within a certain district, having no inducement to go in quest of fresh-turned earth." Now if you mean that the business of congregating is quite at an end from the conclusion of wheat-sowing to the season of barley and oats, it is not the case with us; for larks and chaffinches, and particularly linnets, flock and congregate as much in the very dead of winter as when the husbandman is busy with his ploughs and harrows.

Sure there can be no doubt but that woodcocks and fieldfares leave us in the spring, in order to cross the seas, and to retire to some districts more suitable to the purpose of breeding. That the
former pair before they retire, and that the hens are forward with egg, I myself, when I was a sportsman, have often experienced. It cannot indeed be denied but that now and then we hear of a woodcock's nest, or young birds, discovered in some part or other of this island: but then they are always mentioned as rarities, and somewhat out of the common course of things: but as to redwings and fieldfares, no sportsman or naturalist has ever yet, that I could hear, pretended to have found the nest or young of those species in any part of these kingdoms. And I the more admire at this instance as extraordinary, since, to all appearance, the same food in summer as well as in winter might support them here which maintains their congeners, the blackbirds and thrushes, did they choose to stay the summer through. From hence it appears that it is not food alone which determines some species of birds with regard to their stay or departure. Fieldfares and redwings disappear sooner or later according as the warm weather comes on earlier or later. For I well remember, after that dreadful winter 1739-40, that cold north-east winds continued to blow on through April and May, and that these kinds of birds (what few remained of them) did not depart as usual, but were seen lingering about till the beginning of June.

The best authority that we can have for the nidification of the birds above mentioned in any district, is the testimony of faunists that have written professedly the natural history of particular countries. Now, as to the fieldfare, Linnaeus, in his Fauna Suecica, says of it that "maxmis in arboribus nidificat:" and of the redwing he says, in the same place, that "nidificat in mediis arbustum, sive septibus: ova sex caeruleo-viridia maculis nigris variis." Hence we may be assured that fieldfares and redwings breed in Sweden. Scopoli says, in his Annus Primus, of the woodcock, that "nupta ad nos venit circa æquinoc-tium vernale:" meaning in Tirol, of which he is a native. And afterwards
afterwards he adds "nidificat in paludibus alpinis: ova ponit 3--5." It does not appear from Kramer that woodcocks breed at all in Austria: but he says "Avis hæc septentrionalium provinciarum offivo "tempore necula est; ubi plerunque nidificat. Approinquante hyene "australiores provincias petit: hinc circa plenilunium mensis Octoberis plerum- "que Austriam transmigrat. Tune rursus circa plenilunium potissimum mensis "Martii per Austriam matrimonio juncta ad septentrionales provincias "redit." For the whole passage (which I have abridged) see Elenebus, &c. p. 351. This seems to be a full proof of the migration of woodcocks; though little is proved concerning the place of breeding.

P. S. There fell in the county of Rutland, in three weeks of this present very wet weather, seven inches and an half of rain, which is more than has fallen in any three weeks for these thirty years past in that part of the world. A mean quantity in that county for one year is twenty inches and an half.

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LETTER IX.

TO THE SAME.

DEAR SIR,

FYFIELD, near ANDOVER, Feb. 12, 1772.

You are, I know, no great friend to migration; and the well attested accounts from various parts of the kingdom seem to justify you in your suspicions, that at least many of the swallow kind do not
not leave us in the winter, but lay themselves up like insects and bats, in a torpid state, and slumber away the more uncomfortable months till the return of the sun and fine weather awakens them.

But then we must not, I think, deny migration in general; because migration certainly does subsist in some places, as my brother in Andalusia has fully informed me. Of the motions of these birds he has ocular demonstration, for many weeks together, both spring and fall: during which periods myriads of the swallow kind traverse the Straits from north to south, and from south to north, according to the season. And these vast migrations consist not only of *hirundines* but of bee-birds, hoopoes, *oro pendulos*, or golden thrushes, &c. &c. and also of many of our soft-billed summer birds of passage; and moreover of birds which never leave us, such as all the various sorts of hawks and kites. Old Belon, two hundred years ago, gives a curious account of the incredible armies of hawks and kites which he saw in the spring-time traversing the Thracian Bosporus from Asia to Europe. Besides the above mentioned, he remarks that the procession is swelled by whole troops of eagles and vultures.

Now it is no wonder that birds residing in Africa should retreat before the sun as it advances, and retire to milder regions, and especially birds of prey, whose blood being heated with hot animal food, are more impatient of a sultry climate: but then I cannot help wondering why kites and hawks, and such hardy birds as are known to defy all the severity of England, and even of Sweden and all north Europe, should want to migrate from the south of Europe, and be dissatisfied with the winters of Andalusia.

It does not appear to me that much stress may be laid on the difficulty and hazard that birds must run in their migrations, by reason of vast oceans, cross winds, &c.; because, if we reflect, a bird may travel from England to the equator without launching out and exposing
exposing itself to boundless seas, and that by crossing the water at Dover, and again at Gibraltar. And I with the more confidence advance this obvious remark, because my brother has always found that some of his birds, and particularly the swallow kind, are very sparing of their pains in crossing the Mediterranean: for when arrived at Gibraltar they do not

— — — "Rang'd in figure wedge their way,
— — — — — "And set forth
"Their airy caravan high over seas
"Flying, and over lands with mutual wing
"Easing their flight:" — — — —

**Milton.**

but scout and hurry along in little detached parties of six or seven in a company; and sweeping low, just over the surface of the land and water, direct their course to the opposite continent at the narrowest passage they can find. They usually slope across the bay to the south-west, and so pass over opposite to Tangier, which, it seems, is the narrowest space.

In former letters we have considered whether it was probable that woodcocks in moon-shiny nights cross the German ocean from Scandinavia. As a proof that birds of less speed may pass that sea, considerable as it is, I shall relate the following incident, which, though mentioned to have happened so many years ago, was strictly matter of fact:—As some people were shooting in the parish of Trotton, in the county of Sussex, they killed a duck in that dreadful winter 1708-9, with a silver collar about it's neck *2, on which were engraven the arms of the king of Denmark. This anecdote the rector of Trotton at that time has often told to a near relation of mine; and, to the best of my remembrance, the collar was in the possession of the rector.

* I have read a like anecdote of a swan.
At present I do not know any body near the sea-side that will take the trouble to remark at what time of the moon woodcocks first come: if I lived near the sea myself I would soon tell you more of the matter. One thing I used to observe when I was a sportsman, that there were times in which woodcocks were so fluggish and sleepy that they would drop again when flushed just before the spaniels, nay just at the muzzle of a gun that had been fired at them: whether this strange laziness was the effect of a recent fatiguing journey I shall not presume to say.

Nightingales not only never reach Northumberland and Scotland, but also, as I have been always told, Devonshire and Cornwall. In those two last counties we cannot attribute the failure of them to the want of warmth: the defect in the west is rather a presumptive argument that those birds come over to us from the continent at the narrowest passage, and do not stroll so far westward.

Let me hear from your own observation whether skylarks do not dust. I think they do: and if they do, whether they wash also.

The *alauda pratenisi* of Ray was the poor dupe that was educating the booby of a cuckoo mentioned in my letter of October last.

Your letter came too late for me to procure a ring-ousel for Mr. Tunstal during their autumnal visit; but I will endeavour to get him one when they call on us again in April. I am glad that you and that gentleman saw my Andalusian birds; I hope they answered your expectation. Royton, or grey crows, are winter birds that come much about the same time with the woodcock: they, like the fieldfare and redwing, have no apparent reason for migration; for as they fare in the winter like their congeners, so might they in all appearance in the summer. Was not Tenant, when a boy, mistaken? did he not find a mistel-thrush’s nest, and take it for the nest of a fieldfare?
The flock-dove, or wood-pigeon, *anas faii*, is the last winter bird of passage which appears with us; and is not seen till towards the end of November: about twenty years ago they abounded in the district of Selborne; and fstrings of them were seen morning and evening that reached a mile or more: but since the beechen woods have been greatly thinned they are much decreased in number. The ring-dove, *palumbus faii*, stays with us the whole year, and breeds several times through the summer.

Before I received your letter of October last I had just remarked in my journal that the trees were unusually green. This uncommon verdure lasted on late into November; and may be accounted for from a late spring, a cool and moist summer; but more particularly from vast armies of chaifers, or tree-beetles, which, in many places, reduced whole woods to a leafless naked state. These trees shot again at Midsummer, and then retained their foliage till very late in the year.

My musical friend, at whose house I am now visiting, has tried all the owls that are his near neighbours with a pitch-pipe set at concert-pitch, and finds they all hoot in B flat. He will examine the nightingales next spring. I am, &c. &c.

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**LETTER**
OF SELBORNE.

LETTER X.

TO THE SAME.

DEAR SIR,

Selborne, Aug. 1, 1771.

From what follows, it will appear that neither owls nor cuckoos keep to one note. A friend remarks that many (most) of his owls hoot in B flat; but that one went almost half a note below A. The pipe he tried their notes by was a common half-crown pitch-pipe, such as masters use for tuning of harpsichords; it was the common London pitch.

A neighbour of mine, who is said to have a nice ear, remarks that the owls about this village hoot in three different keys, in G flat, or F sharp, in B flat and A flat. He heard two hooting to each other, the one in A flat, and the other in B flat. Query: Do these different notes proceed from different species, or only from various individuals? The same person finds upon trial that the note of the cuckoo (of which we have but one species) varies in different individuals; for, about Selborne wood, he found they were mostly in D: he heard two sing together, the one in D, the other in D sharp, who made a disagreeable concert: he afterwards heard one in D sharp, and about Woolmer-forest some in C. As to nightingales, he says that their notes are so short, and their transitions so rapid, that he cannot well ascertain their key. Perhaps in a cage, and in a room, their notes may be more distinguishable. This person has tried to settle the notes of a swift, and of several other small birds, but cannot bring them to any criterion.
As I have often remarked that redwings are some of the first birds that suffer with us in severe weather, it is no wonder at all that they retreat from Scandinavian winters: and much more the ordo of gralla, who, all to a bird, forfake the northern parts of Europe at the approach of winter. "Grallae tanquam conjugatae unanimiter in fugam se conjiciunt; ne earum unicum quidem inter nos habitantem in venire possumus; ut enim estate in australibus degere nequeunt ob defectum lumbricorum, terramque ficcam; ita nec in frigidis ob eandem causam", says Ekmarck the Swede, in his ingenious little treatise called Migrationes Avium, which by all means you ought to read while your thoughts run on the subject of migration. See Amenitates Academicae, vol. 4, p. 565.

Birds may be so circumstanced as to be obliged to migrate in one country and not in another: but the gralla, (which procure their food from marshes and boggy grounds) muft in winter forfake the more northerly parts of Europe, or perifh for want of food.

I am glad you are making inquiries from Linneus concerning the woodcock: it is expected of him that he should be able to account for the motions and manner of life of the animals of his own Fauna.

Faunifls, as you observe, are too apt to acquiesce in bare descriptions, and a few synonyms: the reason is plain; because all that may be done at home in a man's study, but the investigation of the life and conversation of animals, is a concern of much more trouble and difficulty, and is not to be attained but by the active and inquisitive, and by those that reside much in the country.

Foreign systematics are, I observe, much too vague in their specific differences; which are almost universally constituted by one or two particular marks, the rest of the description running in general terms. But our countryman, the excellent Mr. Ray, is
OF SELBORNE.

the only describer that conveys some precise idea in every term or word, maintaining his superiority over his followers and imitators in spite of the advantage of fresh discoveries and modern information.

At this distance of years it is not in my power to recollect at what periods woodcocks used to be sluggish or alert when I was a sportsman: but, upon my mentioning this circumstance to a friend, he thinks he has observed them to be remarkably listless against snowy foul weather: if this should be the case, then the inaptitude for flying arises only from an eagerness for food; as sheep are observed to be very intent on grazing against stormy wet evenings.

I am, &c. &c.

LETTER XI.

TO THE SAME.

DEAR SIR,

Selborne, Feb. 8, 1772.

When I ride about in the winter, and see such prodigious flocks of various kinds of birds, I cannot help admiring at these congregations, and wishing that it was in my power to account for those appearances almost peculiar to the season. The two great motives which regulate the proceedings of the brute creation are love and hunger; the former incites animals to perpetuate their kind, the
latter induces them to preserve individuals: whether either of these should seem to be the ruling passion in the matter of congregating is to be considered. As to love, that is out of the question at a time of the year when that soft passion is not indulged: besides, during the amorous season, such a jealousy prevails between the male birds that they can hardly bear to be together in the same hedge or field. Most of the singing and elation of spirits of that time seem to me to be the effect of rivalry and emulation: and it is to this spirit of jealousy that I chiefly attribute the equal dispersion of birds in the spring over the face of the country.

Now as to the business of food: as these animals are actuated by instinct to hunt for necessary food, they should not, one would suppose, crowd together in pursuit of sustenance at a time when it is most likely to fail; yet such associations do take place in hard weather chiefly, and thicken as the severity increases. As some kind of self-interest and self-defence is no doubt the motive for the proceeding, may it not arise from the helplessness of their state in such rigorous seasons; as men crowd together, when under great calamities, though they know not why? Perhaps approximation may dispel some degree of cold; and a crowd may make each individual appear safer from the ravages of birds of prey and other dangers.

If I admire when I see how much congenial birds love to congregate, I am the more struck when I see incongruous ones in such strict amity. If we do not much wonder to see a flock of rooks usually attended by a train of daws, yet it is strange that the former should so frequently have a flight of starlings for their satellites. Is it because rooks have a more discerning scent than their attendants, and can lead them to spots more productive of food? Anatomists say that rooks, by reason of two large nerves which run down between the eyes into the upper mandible, have a more delicate feeling in their beaks than other round-billed birds, and can grope for
OF SELBORNE.

for their meat when out of fight. Perhaps then their associates attend them on the motive of interest, as greyhounds wait on the motions of their finders; and as lions are said to do on the yelpings of jackals. Lapwings and starlings sometimes associate.

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LETTER XII.

TO THE SAME.

DEAR SIR,  March 9, 1772.

As a gentleman and myself were walking on the fourth of last November round the sea-banks at Newhaven, near the mouth of the Lewes river, in pursuit of natural knowledge, we were surprised to see three house-swallows gliding very swiftly by us. That morning was rather chilly, with the wind at north-west; but the tenor of the weather for some time before had been delicate, and the noons remarkably warm. From this incident, and from repeated accounts which I meet with, I am more and more induced to believe that many of the swallow kind do not depart from this island; but lay themselves up in holes and caverns; and do, insect-like and bat-like, come forth at mild times, and then retire again to their latebrae. Nor make I the least doubt but that, if I lived at Newhaven, Seaford, Brighton or any of those towns near the chalk-cliffs of the Sufex coast, by proper observations, I should see swallows stirring at periods of the winter, when the noons were soft and inviting, and the sun warm and invigorating. And I am the more of this opinion
opinion from what I have remarked during some of our late springs, that though some swallows did make their appearance about the usual time, viz. the thirteenth or fourteenth of April, yet meeting with an harsh reception, and blustering cold north-east winds, they immediately withdrew, absconding for several days, till the weather gave them better encouragement.

LETTER XIII.

TO THE SAME. April 12, 1772.

While I was in Sussex last autumn my residence was at the village near Lewes, from whence I had formerly the pleasure of writing to you. On the first of November I remarked that the old tortoise, formerly mentioned, began first to dig the ground in order to the forming it's hibernaculum, which it had fixed on just beside a great tuft of hepaticas. It scrapes out the ground with it's fore-feet, and throws it up over it's back with it's hind; but the motion of it's legs is ridiculously slow, little exceeding the hour-hand of a clock; and suitable to the compofure of an animal said to be a whole month in performing one feat of copulation. Nothing can be more assiduous than this creature night and day in scooping the earth, and forcing it's great body into the cavity; but, as the noons of that season proved unusually warm and sunny, it was continually interrupted, and called forth by the heat in the middle of the day; and
OF SELBORNE

and though I continued there till the thirteenth of November, yet the work remained unfinished. Harsher weather, and frosty mornings, would have quickened it's operations. No part of it's behaviour ever struck me more than the extreme timidity it always expresses with regard to rain; for though it has a shell that would secure it against the wheel of a loaded cart, yet does it discover as much solicitude about rain as a lady dressed in all her best attire, shuffling away on the first sprinklings, and running it's head up in a corner. If attended to, it becomes an excellent weather-glass; for as sure as it walks elate, and as it were on tiptoe, feeding with great earnestness in a morning, so sure will it rain before night. It is totally a diurnal animal, and never pretends to stir after it becomes dark. The tortoise, like other reptiles, has an arbitrary stomach as well as lungs; and can refrain from eating as well as breathing for a great part of the year. When first awakened it eats nothing; nor again in the autumn before it retires: through the height of the summer it feeds voraciously, devouring all the food that comes in it's way. I was much taken with it's fagacity in discerning those that do it kind offices: for, as soon as the good old lady comes in sight who has waited on it for more than thirty years, it hobbles towards it's benefactress with awkward alacrity; but remains inattentive to strangers. Thus not only "the ox knoweth his owner, and the ass his master's crib," but the most abject reptile and torpid of beings distinguishes the hand that feeds it, and is touched with the feelings of gratitude!

I am, &c. &c.

P. S. In about three days after I left Sussex the tortoise retired into the ground under the hepatica.

LETTER

b Isaiah i. 3.
DEAR SIR,

Selborne, March 26, 1773.

The more I reflect on the soppy of animals, the more I am astonished at its effects. Nor is the violence of this affection more wonderful than the shortness of its duration. Thus every hen is in her turn the virago of the yard, in proportion to the helplessness of her brood; and will fly in the face of a dog or a few in defence of those chickens, which in a few weeks she will drive before her with relentless cruelty.

This affection sublimes the passions, quickens the invention, and sharpens the sagacity of the brute creation. Thus an hen, just become a mother, is no longer that placid bird she used to be, but with feathers standing an end, wings hovering, and clocking note, she runs about like one possessed. Dams will throw themselves in the way of the greatest danger in order to avert it from their progeny. Thus a partridge will tumble along before a sportsman in order to draw away the dogs from her helpless covey. In the time of nidification the most feeble birds will assail the most rapacious. All the hirundines of a village are up in arms at the sight of an hawk, whom they will persecute till he leaves that district. A very exact observer has often remarked that a pair of ravens nestling in the rock of Gibraltar would suffer no vulture or eagle to rest near their station, but would drive them from the hill with an amazing fury: even the blue
blue thrush at the season of breeding would dart out from the clefts of the rocks to chase away the kestril, or the sparrow-hawk. If you stand near the nest of a bird that has young, she will not be induced to betray them by an inadvertent fondness, but will wait about at a distance with meat in her mouth for an hour together.

Should I farther corroborate what I have advanced above by some anecdotes which I probably may have mentioned before in conversation, yet you will, I trust, pardon the repetition for the sake of the illustration.

The flycatcher of the Zoology (the floparolu of Ray), builds every year in the vines that grow on the walls of my house. A pair of these little birds had one year inadvertently placed their nest on a naked bough, perhaps in a shady time, not being aware of the inconvenience that followed. But an hot funny season coming on before the brood was half fledged, the reflection of the wall became insupportable, and must inevitably have destroyed the tender young, had not affection suggested an expedient, and prompted the parent-birds to hover over the nest all the hotter hours, while with wings expanded, and mouths gaping for breath, they screened off the heat from their suffering offspring.

A farther instance I once saw of notable sagacity in a willow-wren, which had built in a bank in my fields. This bird a friend and myself had observed as she sat in her nest; but were particularly careful not to disturb her, though we saw she eyed us with some degree of jealousy. Some days after as we passed that way we were desirous of remarking how this brood went on; but no nest could be found, till I happened to take up a large bundle of long green moss, as it were, carelessly thrown over the nest in order to dodge the eye of any impertinent intruder.
A still more remarkable mixture of sagacity and instinct occurred to me one day as my people were pulling off the lining of an hotbed, in order to add some fresh dung. From out of the side of this bed leaped an animal with great agility that made a most grotesque figure; nor was it without great difficulty that it could be taken; when it proved to be a large white-bellied field-mouse with three or four young clinging to her teats by their mouths and feet. It was amazing that the desultory and rapid motions of this dam should not oblige her litter to quit their hold, especially when it appeared that they were so young as to be both naked and blind!

To these instances of tender attachment, many more of which might be daily discovered by those that are studious of nature, may be opposed that rage of affection, that monstrous perversion of the στοχαστική, which induces some females of the brute creation to devour their young because their owners have handled them too freely, or removed them from place to place! Swine, and sometimes the more gentle race of dogs and cats, are guilty of this horrid and preposterous murder. When I hear now and then of an abandoned mother that destroys her offspring, I am not so much amazed; since reason perverted, and the bad passions let loose, are capable of any enormity: but why the parental feelings of brutes, that usually flow in one most uniform tenor, should sometimes be so extravagantly diverted, I leave to abler philosophers than myself to determine.

I am, &c.

LETTER
OF SELBORNE.

LETTER XV.

TO THE SAME.

DEAR SIR,

Selborne, July 8, 1773.

Some young men went down lately to a pond on the verge of Wolmer-forest to hunt flappers, or young wild-ducks, many of which they caught, and, among the rest, some very minute yet well-fledged wild-fowls alive, which upon examination I found to be teals. I did not know till then that teals ever bred in the south of England, and was much pleased with the discovery: this I look upon as a great stroke in natural history.

We have had, ever since I can remember, a pair of white owls that constantly breed under the eaves of this church. As I have paid good attention to the manner of life of these birds during their season of breeding, which lasts the summer through, the following remarks may not perhaps be unacceptable:—About an hour before sunset (for then the mice begin to run) they fall forth in quest of prey, and hunt all round the hedges of meadows and small enclosures for them, which seem to be their only food. In this irregular country we can stand on an eminence and see them beat the fields over like a setting-dog, and often drop down in the grass or corn. I have minuted these birds with my watch for an hour together, and have found that they return to their nest, the one or the other of them, about once in five minutes; reflecting at the same time on the adroitness that every animal is possessed of as far as regards the well being of itself and off-

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spring.
spring. But a piece of address, which they shew when they return loaded, should not, I think, be passed over in silence. — As they take their prey with their claws, so they carry it in their claws to their nest: but, as the feet are necessary in their ascent under the tiles, they constantly perch first on the roof of the chancel, and shift the mouse from their claws to their bill, that the feet may be at liberty to take hold of the plate on the wall as they are rising under the eaves.

White owls seem not (but in this I am not positive) to hoot at all: all that clamorous hooting appears to me to come from the wood kinds. The white owl does indeed snore and hiss in a tremendous manner; and these menaces well answer the intention of intimidating: for I have known a whole village up in arms on such an occasion, imagining the church-yard to be full of goblins and spectres. White owls also often scream horribly as they fly along; from this screaming probably arose the common people’s imaginary species of _screeb-owl_, which they superstitiously think attends the windows of dying persons. The plumage of the remiges of the wings of every species of owl that I have yet examined is remarkably soft and pliant. Perhaps it may be necessary that the wings of these birds should not make much resistance or rushing, that they may be enabled to steal through the air unheard upon a nimble and watchful quarry.

While I am talking of owls, it may not be improper to mention what I was told by a gentleman of the county of Wilts. As they were grubbing a vast hollow pollard-ash that had been the mansion of owls for centuries, he discovered at the bottom a mass of matter that at first he could not account for. After some examination, he found that it was a congeries of the bones of mice (and perhaps of birds and bats) that had been heaping together
for ages, being cast up in pellets out of the crops of many generations of inhabitants. For owls cast up the bones, fur, and feathers, of what they devour, after the manner of hawks. He believes, he told me, that there were bushels of this kind of substance.

When brown owls hoot their throats swell as big as an hen's egg. I have known an owl of this species live a full year without any water. Perhaps the case may be the same with all birds of prey. When owls fly they stretch out their legs behind them as a balance to their large heavy heads. For as most nocturnal birds have large eyes and ears they must have large heads to contain them. Large eyes I presume are necessary to collect every ray of light, and large concave ears to command the smallest degree of sound or noise.

I am, &c.

It will be proper to premise here that the sixteenth, eighteenth, twentieth, and twenty-first letters have been published already in the Philosophical Transactions: but as nicer observation has furnished several corrections and additions, it is hoped that the republication of them will not give offence; especially as these sheets would be very imperfect without them, and as they will be new to many readers who had no opportunity of seeing them when they made their first appearance.

The kirundines are a most inoffensive, harmless, entertaining, social, and useful tribe of birds: they touch no fruit in our gardens; delight, all except one species, in attaching themselves to our houses; amuse us with their migrations, songs, and marvellous agility; and clear our outlets from the annoyances of gnats and other troublesome insects. Some districts in the south seas, near Guayaquil,
Guayaquil, are desolated, it seems, by the infinite swarms of venomous mosquitoes, which fill the air, and render those coasts insupportable. It would be worth inquiring whether any species of *hirundines* is found in those regions. Whoever contemplates the myriads of insects that sport in the sun-beams of a summer evening in this country, will soon be convinced to what a degree our atmosphere would be choaked with them was it not for the friendly interposition of the swallow tribe.

Many species of birds have their peculiar lice; but the *hirundines* alone seem to be annoyed with *dipterus* insects, which infest every species, and are so large, in proportion to themselves, that they must be extremely irksome and injurious to them. These are the *hippobosca birundinis*, with narrow subulated wings, abounding in every nest; and are hatched by the warmth of the bird's own body during incubation, and crawl about under its feathers.

A species of them is familiar to horsemen in the south of England under the name of *forest-fly*; and to some of *side-fly*, from its running sidewise a crab. It creeps under the tails, and about the groins, of horses, which, at their first coming out of the north, are rendered half frantic by the tickling sensation; while our own breed little regards them.

The curious Reaumur discovered the large eggs, or rather pupae, of these flies as big as the flies themselves, which he hatched in his own bosom. Any person that will take the trouble to examine the old nests of either species of swallows may find in them the black shining cases or skins of the pupae of these insects: but for other particulars, too long for this place, we refer the reader to *l'Histoire d'Insectes* of that admirable entomologist. Tom. iv, pl. 11.

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*See Ulloa's Travels.*

LETTER
OF SELBORNE.

LETTER XVI.

TO THE SAME.

DEAR SIR,

Seleorne, Nov. 20, 1773.

In obedience to your injunctions I am down to give you some account of the house-martin, or martlet; and, if my monography of this little domestic and familiar bird should happen to meet with your approbation, I may probably soon extend my inquiries to the rest of the British hirundines—the swallow, the swift, and the bank-martin.

A few house-martins begin to appear about the sixteenth of April; usually some few days later than the swallow. For some time after they appear the hirundines in general pay no attention to the business of nidification, but play and sport about, either to recruit from the fatigue of their journey, if they do migrate at all, or else that their blood may recover its true tone and texture after it has been so long numbed by the severities of winter. About the middle of May, if the weather be fine, the martin begins to think in earnest of providing a mansion for its family. The crust or shell of this nest seems to be formed of such earth or loam as comes most readily to hand, and is tempered and wrought together with little bits of broken straws to render it tough and tenacious. As this bird often builds against a perpendicular wall without any projecting ledge under, it requires its utmost efforts to get the first foundation firmly fixed, so that it may safely carry the superstructure. On this occasion the bird not only clings with its claws,
but partly supports itself by strongly inclining it's tail against the wall, making that a fulcrum; and thus steadied it works and plasters the materials into the face of the brick or stone. But then, that this work may not, while it is soft and green, pull itself down by it's own weight, the provident architect has prudence and forbearance enough not to advance her work too fast; but by building only in the morning, and by dedicating the rest of the day to food and amusement, gives it sufficient time to dry and harden. About half an inch seems to be a sufficient layer for a day. Thus careful workmen when they build mud-walls (informed at first perhaps by this little bird) raise but a moderate layer at a time, and then desist; left the work should become top-heavy, and so be ruined by it's own weight. By this method in about ten or twelve days is formed an hemispheric nest with a small aperture towards the top, strong, compact, and warm; and perfectly fitted for all the purposes for which it was intended. But then nothing is more common than for the house-sparrow, as soon as the shell is finished, to seize on it as it's own, to eject the owner, and to line it after it's own manner.

After so much labour is bestowed in erecting a mansion, as Nature seldom works in vain, martins will breed on for several years together in the same nest, where it happens to be well sheltered and secure from the injuries of weather. The shell or crust of the nest is a sort of rustic-work full of knobs and protuberances on the outside; nor is the inside of those that I have examined smoothed with any exactness at all; but is rendered soft and warm, and fit for incubation, by a lining of small straws, grasses, and feathers; and sometimes by a bed of moss interwoven with wool. In this nest they tread, or engender, frequently during the time of building; and the hen lays from three to five white eggs.
At first when the young are hatched, and are in a naked and helplefs condition, the parent birds, with tender affiduity, carry out what comes away from their young. Was it not for this affectionate cleanliness the neftlings would soon be burnt up, and destroyed in so deep and hollow a neft, by their own caustic excrement. In the quadruped creation the fame neat precaution is made use of; particularly among dogs and cats, where the dams lick away what proceeds from their young. But in birds there seems to be a particular provision, that the dung of neftlings is enveloped in a tough kind of jelly, and therefore is the easier conveyed off without foiling or daubing. Yet, as nature is cleanly in all her ways, the young perform this office for themselves in a little time by thrusting their tails out at the aperture of their neft. As the young of small birds presently arrive at their full growth, they soon become impatient of confinement, and fit all day with their heads out at the orifice, where the dams, by clinging to the neft, supply them with food from morning to night. For a time the young are fed on the wing by their parents; but the feat is done by so quick and almost imperceptible a flight, that a person must have attended very exactly to their motions before he would be able to perceive it. As soon as the young are able to shift for themselves, the dams immediately turn their thoughts to the business of a second brood: while the first flight, shaken off and rejected by their nurses, congregate in great flocks, and are the birds that are seen clustering and hovering on sunny mornings and evenings round towers and steeples, and on the roofs of churches and houses. These congregations usually begin to take place about the first week in August; and therefore we may conclude that by that time the first flight is pretty well over. The young of this species do not quit their abodes all together; but the more forward birds get abroad some days before
before the rest. These approaching the eaves of buildings, and playing about before them, make people think that several old ones attend one nest. They are often capricious in fixing on a nestling-place, beginning many edifices, and leaving them unfinished; but when once a nest is completed in a sheltered place, it serves for several seasons. Those which breed in a ready finished house get the start in hatching of those that build new by ten days or a fortnight. Those industrious artificers are at their labours in the long days before four in the morning: when they fix their materials they plaster them on with their chins, moving their heads with a quick vibratory motion. They dip and wash as they fly sometimes in very hot weather, but not so frequently as swallows. It has been observed that martins usually build to a north-eaft or north-west aspect, that the heat of the sun may not crack and destroy their nests: but instances are also remembered where they bred for many years in vast abundance in an hot stifled inn-yard, against a wall facing to the south.

Birds in general are wise in their choice of situation: but in this neighbourhood every summer is seen a strong proof to the contrary at an house without eaves in an exposed district, where some martins build year by year in the corners of the windows. But, as the corners of these windows (which face to the south-east and south-west) are too shallow, the nests are washed down every hard rain; and yet these birds drudge on to no purpose from summer to summer, without changing their aspect or house. It is a piteous sight to see them labouring when half their nest is washed away and bringing dirt — — "generis lapsi farcire ruinas". Thus is instinct a most wonderful unequal faculty; in some instances so much above reason, in other respects so far below it! Martins love to frequent towns, especially if there are great lakes and rivers at hand; nay
they even affect the close air of London. And I have not only seen them nesting in the Borough, but even in the Strand and Fleet-street; but then it was obvious from the dinginess of their aspect that their feathers partook of the filth of that footy atmosphere. Martins are by far the least agile of the four species; their wings and tails are short, and therefore they are not capable of such surprising turns and quick and glancing evolutions as the swallow. Accordingly they make use of a placid easy motion in a middle region of the air, seldom mounting to any great height, and never sweeping long together over the surface of the ground or water. They do not wander far for food, but affect sheltered districts, over some lake, or under some hanging wood, or in some hollow vale, especially in windy weather. They breed the latest of all the swallow kind: in 1772 they had nestlings on October the twenty-first, and are never without unfeated young as late as Michaelmas.

As the summer declines the congregating flocks increase in numbers daily by the constant accession of the second broods; till at last they swarm in myriads upon myriads round the villages on the Thames, darkening the face of the sky as they frequent the aits of that river, where they roost. They retire, the bulk of them I mean, in vast flocks together about the beginning of October: but have appeared of late years in a considerable flight in this neighbourhood, for one day or two, as late as November the third and sixth, after they were supposed to have been gone for more than a fortnight. They therefore withdraw with us the latest of any species. Unles these birds are very short-lived indeed, or unless they do not return to the district where they are bred, they must undergo vast devaftations some how, and some where; for the birds that return yearly bear no manner of proportion to the birds that retire.
House-martins are distinguished from their congeneres by having their legs covered with soft downy feathers down to their toes. They are no songsters; but twitter in a pretty inward soft manner in their nests. During the time of breeding they are often greatly molested with fleas.

I am, &c.

LETTER XVII.

TO THE SAME.

DEAR SIR,

RINGMER, near LEWES, Dec. 9, 1773.

I received your last favour just as I was setting out for this place; and am pleased to find that my monography met with your approbation. My remarks are the result of many years observation; and are, I trust, true in the whole: though I do not pretend to say that they are perfectly void of mistake, or that a more nice observer might not make many additions, since subjects of this kind are inexhaustible.

If you think my letter worthy the notice of your respectable society, you are at liberty to lay it before them; and they will consider it, I hope, as it was intended, as an humble attempt to promote a more minute inquiry into natural history; into the life and conversation of animals. Perhaps hereafter I may be induced to take the house-f swallow under consideration; and from that proceed to the rest of the British Hirundines.

Though
Though I have now travelled the Sufsex-downs upwards of thirty years, yet I still investigate that chain of majestic mountains with fresh admiration year by year; and think I see new beauties every time I traverse it. This range, which runs from Chichester eastward as far as East-Bourn, is about sixty miles in length, and is called The South Downs, properly speaking, only round Lewes. As you pass along you command a noble view of the wild, or weald, on one hand, and the broad downs and sea on the other. Mr. Ray used to visit a family just at the foot of these hills, and was so ravished with the prospect from Plumpton-plain, near Lewes, that he mentions those scapes in his "Wisdom of God in the "Works of the Creation" with the utmost satisfaction, and thinks them equal to any thing he had seen in the finest parts of Europe.

For my own part, I think there is somewhat peculiarly sweet and amusing in the shapely figured aspect of chalk-hills in preference to those of stone, which are rugged, broken, abrupt, and shapeless.

Perhaps I may be singular in my opinion, and not so happy as to convey to you the same idea; but I never contemplate these mountains without thinking I perceive somewhat analogous to growth in their gentle swellings and smooth fungus-like protuberances, their fluted sides, and regular hollows and slopes, that carry at once the air of vegetative dilation and expansion...

--- Or was there ever a time when these immense masses of calcareous matter were thrown into fermentation by some adventitious moisture; were raised and leavened into such shapes by some plastic power; and so made to swell and heave their broad backs into the sky for much above the less animated clay of the wild below?

* Mr. Courthope of Danny.  

Y 2  

By
By what I can guess from the admeasurements of the hills that have been taken round my house, I should suppose that these hills surmount the wild at an average at about the rate of five hundred feet.

One thing is very remarkable as to the sheep: from the westward till you get to the river Adur all the flocks have horns, and smooth white faces, and white legs; and a hornless sheep is rarely to be seen: but as soon as you pass that river eastward, and mount Beeding-hill, all the flocks at once become hornless, or, as they call them, poll-sheep; and have moreover black faces with a white tuft of wool on their foreheads, and speckled and spotted legs: so that you would think that the flocks of Laban were pasturing on one side of the stream, and the variegated breed of his son-in-law Jacob were cantoned along on the other. And this diversity holds good respectively on each side from the valley of Bramber and Beeding to the eastward, and westward all the whole length of the downs. If you talk with the shepherds on this subject, they tell you that the case has been so from time immemorial; and smile at your simplicity if you ask them whether the situation of these two different breeds might not be reversed? However, an intelligent friend of mine near Chichester is determined to try the experiment; and this autumn, at the hazard of being laughed at, introduced a parcel of black-faced hornless rams among his horned western ewes. The black-faced poll-sheep have the shortest legs and the finest wool.

As I had hardly ever before travelled these downs at so late a season of the year, I was determined to keep as sharp a look-out as possible so near the southern coast, with respect to the summer short-winged birds of passage. We make great inquiries concerning the withdrawing of the swallow kind, without examining enough into the
the causes why this tribe is never to be seen in winter: for, entre nous, the disappearing of the latter is more marvellous than that of the former, and much more unaccountable. The Hirundines, if they please, are certainly capable of migration; and yet no doubt are often found in a torpid state: but redstarts, nightingales, white-throats, black-caps, &c. &c. are very ill provided for long flights; have never been once found, as I ever heard of, in a torpid state, and yet can never be supposed, in such troops, from year to year to dodge and elude the eyes of the curious and inquisitive, which from day to day discern the other small birds that are known to abide our winters. But, notwithstanding all my care, I saw nothing like a summer bird of passage: and, what is more strange, not one wheat-ear, though they abound so in the autumn as to be a considerable perquisite to the shepherds that take them; and though many are to be seen to my knowledge all the winter through in many parts of the south of England. The most intelligent shepherds tell me that some few of these birds appear on the downs in March, and then withdraw to breed probably in warrens and stone-quarries: now and then a nest is plowed up in a fallow on the downs under a furrow, but it is thought a rarity. At the time of wheat-harvest they begin to be taken in great numbers; are sent for sale in vast quantities to Brightheimstone and Tunbridge; and appear at the tables of all the gentry that entertain with any degree of elegance. About Michaelmas they retire and are seen no more till March. Though these birds are, when in season, in great plenty on the south downs round Lewes, yet at East-Bourn, which is the eastern extremity of those downs, they abound much more. One thing is very remarkable—that though in the height of the season so many hundreds of dozens are taken, yet they never are seen to flock; and it is a rare thing to see more than three or four at a time: so that there must
must be a perpetual flitting and constant progresive succession. It does not appear that any wheat-ears are taken to the westward of Houghton-bridge, which stands on the river Arun.

I did not fail to look particularly after my new migration of ring-ouzels; and to take notice whether they continued on the downs to this season of the year; as I had formerly remarked them in the month of October all the way from Chichester to Lewes wherever there were any shrubs and covert: but not one bird of this sort came within my observation. I only saw a few larks and whitethroats, some rooks, and several kites and buzzards.

About Midsummer a flight of cross-bills comes to the pine-groves about this house, but never makes any long stay.

The old tortoise, that I have mentioned in a former letter, still continues in this garden; and retired under ground about the twentieth of November, and came out again for one day on the thirtieth: it lies now buried in a wet swampy border under a wall facing to the south, and is enveloped at present in mud and mire!

Here is a large rookery round this house, the inhabitants of which seem to get their livelihood very easily; for they spend the greatest part of the day on their nest-trees when the weather is mild. These rooks retire every evening all the winter from this rookery, where they only call by the way, as they are going to roost in deep woods: at the dawn of day they always revisit their nest-trees, and are preceded a few minutes by a flight of daws, that act, as it were, as their harbingers.

I am, &c.

LETTER
DEAR SIR,

Selborne, Jan. 29, 1774.

The house-swallow, or chimney-swallow, is undoubtedly the first comer of all the Britisb bicornines; and appears in general on or about the thirteenth of April, as I have remarked from many years observation. Not but now and then a straggler is seen much earlier: and, in particular, when I was a boy I observed a swallow for a whole day together on a sunny warm Shrove Tuesday; which day could not fall out later than the middle of March, and often happened early in February.

It is worth remarking that these birds are seen first about lakes and mill-ponds; and it is also very particular, that if these early visitors happen to find frost and snow, as was the case of the two dreadful springs of 1770 and 1771, they immediately withdraw for a time. A circumstance this much more in favour of hiding than migration; since it is much more probable that a bird should retire to its hybernaculum just at hand, than return for a week or two only to warmer latitudes.

The swallow, though called the chimney-swallow, by no means builds altogether in chimneys, but often within barns and outhouses against the rafters; and so she did in Virgil's time:

"Ante
Garrula quam tignis nidos suspendat hirundo."
In Sweden she builds in barns, and is called *ladu fivala*, the barn-swallow. Besides, in the warmer parts of Europe there are no chimneys to houses, except they are *English-built*: in these countries she constructs her nest in porches, and gate-ways, and galleries, and open halls.

Here and there a bird may affect some odd, peculiar place; as we have known a swallow build down the shaft of an old well, through which chalk had been formerly drawn up for the purpose of manure: but in general with us this *hirundo* breeds in chimneys; and loves to haunt those stacks where there is a constant fire, no doubt for the sake of warmth. Not that it can subsist in the immediate shaft where there is a fire; but prefers one adjoining to that of the kitchen, and disregards the perpetual smoke of that funnel, as I have often observed with some degree of wonder.

Five or six or more feet down the chimney does this little bird begin to form her nest about the middle of May, which consists, like that of the house-martin, of a crust or shell composed of dirt or mud, mixed with short pieces of straw to render it tough and permanent; with this difference, that whereas the shell of the martin is nearly hemispheric, that of the swallow is open at the top, and like half a deep dish: this nest is lined with fine grasses, and feathers which are often collected as they float in the air.

Wonderful is the address which this adroit bird shews all day long in ascending and descending with security through so narrow a pass. When hovering over the mouth of the funnel, the vibrations of her wings acting on the confined air occasion a rumbling like thunder. It is not improbable that the dam submits to this inconvenient situation so low in the shaft, in order to secure her broods from rapacious birds, and particularly from owls, which
frequently fall down chimneys, perhaps in attempting to get at these nestlings.

The swallow lays from four to six white eggs, dotted with red specks; and brings out her first brood about the last week in June, or the first week in July. The progressive method by which the young are introduced into life is very amusing: first, they emerge from the shaft with difficulty enough, and often fall down into the rooms below: for a day or so they are fed on the chimney-top, and then are conducted to the dead leafless bough of some tree, where, sitting in a row, they are attended with great assiduity, and may then be called perchers. In a day or two more they become flyers, but are still unable to take their own food; therefore they play about near the place where the dam are hawking for flies; and, when a mouthful is collected, at a certain signal given, the dam and the nestling advance, rising towards each other, and meeting at an angle; the young one all the while uttering such a little quick note of gratitude and complacency, that a person must have paid very little regard to the wonders of Nature that has not often remarked this feat.

The dam betakes herself immediately to the business of a second brood as soon as she is disengaged from her first; which at once associates with the first broods of house-martins; and with them congregates, clustering on funny roofs, towers, and trees. This hirundo brings out her second brood towards the middle and end of August.

All the summer long is the swallow a most instructive pattern of unwearied industry and affection; for, from morning to night, while there is a family to be supported, she spends the whole day in skimming close to the ground, and exerting the most sudden turns and quick evolutions. Avenues, and long walks under hedges,
hedges, and pasture-fields, and mown meadows where cattle graze, are her delight, especially if there are trees interspersed; because in such spots insects most abound. When a fly is taken a smart snap from her bill is heard, resembling the noise at the shutting of a watch-case; but the motion of the mandibles are too quick for the eye.

The swallow, probably the male bird, is the excubitor to house-martins, and other little birds, announcing the approach of birds of prey. For as soon as an hawk appears, with a shrill alarming note he calls all the swallows and martins about him; who pursue in a body, and buffet and strike their enemy till they have driven him from the village, darting down from above on his back, and rising in a perpendicular line in perfect security. This bird also will sound the alarm, and strike at cats when they climb on the roofs of houses, or otherwise approach the nests. Each species of hirundo drinks as it flies along, sipping the surface of the water; but the swallow alone, in general, washes on the wing, by dropping into a pool for many times together: in very hot weather house-martins and bank-martins dip and wash a little.

The swallow is a delicate songster, and in soft funny weather sings both perching and flying; on trees in a kind of concert, and on chimney tops: is also a bold flyer, ranging to distant downs and commons even in windy weather, which the other species seem much to dislike; nay, even frequenting exposed sea-port towns, and making little excursions over the salt water. Horsemens on wide downs are often closely attended by a little party of swallows for miles together, which plays before and behind them, sweeping around, and collecting all the scurrying insects that are roused by the trampling of the horses feet: when the wind blows hard, without this expedient, they are often forced to settle to pick up their lurking prey.
OF SELBORNE.

This species feeds much on little coleoptera, as well as on gnats and flies; and often settles on dug ground, or paths, for gravels to grind and digest it's food. Before they depart, for some weeks, to a bird, they forsake houses and chimnies, and roost in trees; and usually withdraw about the beginning of October; though some few stragglers may appear on at times till the first week in November.

Some few pairs haunt the new and open streets of London next the fields, but do not enter, like the house-martin, the close and crowded parts of the city.

Both male and female are distinguished from their congers by the length and forkedness of their tails. They are undoubtedly the most nimble of all the species: and when the male pursues the female in amorous chase, they then go beyond their usual speed, and exert a rapidity almost too quick for the eye to follow.

After this circumstantial detail of the life and discerning story of the swallow, I shall add, for your farther amusement, an anecdote or two not much in favour of her sagacity:—

A certain swallow built for two years together on the handles of a pair of garden-shears, that were stuck up against the boards in an out-house, and therefore must have her nest spoiled whenever that implement was wanted: and, what is stranger still, another bird of the same species built it's nest on the wings and body of an owl that happened by accident to hang dead and dry from the rafter of a barn. This owl, with the nest on it's wings, and with eggs in the nest, was brought as a curiosity worthy the most elegant private museum in Great-Britain. The owner, struck with the oddity of the sight, furnished the bringer with a large shell, or conch, desiring him to fix it just where the owl hung: the person did as he was ordered, and the following year a pair, prob-
bably the same pair, built their nest in the conch, and laid their eggs.

The owl and the conch make a strange grotesque appearance, and are not the least curious specimens in that wonderful collection of art and nature.

Thus is instinct in animals, taken the least out of its way, an undistinguishing, limited faculty; and blind to every circumstance that does not immediately respect self-preservation, or lead at once to the propagation or support of their species.

I am,

With all respect, &c. &c.

LETTER XIX.

TO THE SAME.

DEAR SIR,

Selborne, Feb. 14, 1774.

I received your favour of the eighth, and am pleased to find that you read my little history of the swallow with your usual candour: nor was I the least pleased to find that you made objections where you saw reason.

* Sir Ashton Lever's Museum.
OF SELBORNE.

As to the quotations, it is difficult to say precisely which species of hirundo Virgil might intend in the lines in question, since the ancients did not attend to specific differences like modern naturalists; yet somewhat may be gathered, enough to incline me to suppose that in the two passages quoted the poet had his eye on the swallow.

In the first place the epithet garrula suits the swallow well, who is a great longifter; and not the martin, which is rather a mute bird; and when it sings is so inward as scarce to be heard. Besides, if tignum in that place signifies a rafter rather than a beam, as it seems to me to do, then I think it must be the swallow that is alluded to, and not the martin; since the former does frequently build within the roof against the rafters; while the latter always, as far as I have been able to observe, builds without the roof against eaves and cornices.

As to the simile, too much stress must not be laid on it: yet the epithet nigra speaks plainly in favour of the swallow, whose back and wings are very black; while the rump of the martin is milk-white, it's back and wings blue, and all it's under part white as snow. Nor can the clumsy motions (comparatively clumsy) of the martin well represent the sudden and artful evolutions and quick turns which Juturna gave to her brother's chariot, so as to elude the eager pursuit of the enraged Æneas. The verb sonat also seems to imply a bird that is somewhat loquacious.

"Nigra velut magnas domini cum divitis ades
Pervolat, et pennis alta atria lułatir hirundo,
Pabula parva legens, nidiisque loquacibus efcae:
Et nunc porticibus vacuis, nunc humida circum
Stagna sonat"
We have had a very wet autumn and winter, so as to raise the springs to a pitch beyond any thing since 1764; which was a remarkable year for floods and high waters. The land-springs, which we call lavants, break out much on the downs of Suffolk, Hampshire, and Wiltshire. The country people say when the lavants rise corn will always be dear; meaning that when the earth is so glutted with water as to send forth springs on the downs and uplands, that the corn-vailes must be drowned: and so it has proved for these ten or eleven years past. For land-springs have never obtained more since the memory of man than during that period; nor has there been known a greater scarcity of all sorts of grain, considering the great improvements of modern husbandry. Such a run of wet seasons a century or two ago would, I am persuaded, have occasioned a famine. Therefore pamphlets and newspaper letters, that talk of combinations, tend to inflame and mislead; since we must not expect plenty till Providence sends us more favourable seasons.

The wheat of last year, all round this district, and in the county of Rutland, and elsewhere, yields remarkably bad: and our wheat on the ground, by the continual late sudden vicissitudes from fierce frost to pouring rains, looks poorly; and the turnips rot very fast.

I am, &c.
OF SELBORNE.

LETTER XX.

TO THE SAME.

DEAR SIR, Selborne, Feb. 26, 1774.

The sand-martin, or bank-martin, is by much the leaft of any of the British hirundines; and, as far as we have ever seen, the smalleſt known hirundo: though Briffon afferts that there is one much smaller, and that is the hirundo esculenta.

But it is much to be regretted that it is scarce possible for any observer to be fo full and exact as he could wish in reciting the circumstances attending the life and converſation of this little bird, fince it is fera naturâ, at leaft in this part of the kingdom, diſclaiming all domes‐tic attachments, and haunting wild heaths and commons where there are large lakes: while the other species, especially the swallow and house-martin, are remarkably gentle and domesticated, and never seem to think themselves safe but under the protection of man.

Here are in this parish, in the sand-pits and banks of the lakes of Woolmer-forest, feveral colonies of these birds; and yet they are never feen in the village; nor do they at all frequent the cottages that are scattered about in that wild district. The only inſtance I ever remember where this species haunts any building is at the town of Bifhop's Walbam, in this county, where many sand-martins neſtle and breed in the ſcaffold-holes of the back-wall of William of Wykeham's ſtableſ: but then this wall ſtands in a very ſequeſtered and retired
retired enclosure, and faces upon a large and beautiful lake. And indeed this species seems so to delight in large waters, that no instance occurs of their abounding, but near vast pools or rivers: and in particular it has been remarked that they swarm in the banks of the Thames in some places below London-bridge.

It is curious to observe with what different degrees of architectonic skill Providence has endowed birds of the same genus, and so nearly correspondent in their general mode of life! for while the swallow and the house-martin discover the greatest address in raising and securely fixing crusts or shells of loam as cunabula for their young, the bank-martin terebulates a round and regular hole in the sand or earth, which is serpentine, horizontal, and about two feet deep. At the inner end of this burrow does this bird deposit, in a good degree of safety, her rude nest, consisting of fine grasses and feathers, usually goose-feathers, very inartificially laid together.

Perseverance will accomplish any thing: though at first one would be disinclined to believe that this weak bird, with her soft and tender bill and claws, should ever be able to bore the stubborn sand-bank without entirely disabling herself: yet with these feeble instruments have I seen a pair of them make great dispatch: and could remark how much they had scooped that day by the fresh sand which ran down the bank, and was of a different colour from that which lay loose and bleached in the sun.

In what space of time these little artists are able to mine and finish these cavities I have never been able to discover, for reasons given above; but it would be a matter worthy of observation, where it falls in the way of any naturalist to make his remarks. This I have often taken notice of, that several holes of different depths are left unfinished at the end of summer. To imagine that
these beginnings were intentionally made in order to be in the greater forwardness for next spring, is allowing perhaps too much foresight and rerum prudentia to a simple bird. May not the cause of these latèbrae being left unfinished arise from their meeting in those places with strata too harsh, hard, and solid, for their purpose, which they relinquish, and go to a fresh spot that works more freely? Or may they not in other places fall in with a soil as much too loose and mouldering, liable to flounder, and threatening to overwhelm them and their labours?

One thing is remarkable—that, after some years, the old holes are forsaken and new ones bored; perhaps because the old habitations grow foul and fetid from long use, or because they may so abound with fleas as to become untenantable. This species of swallow moreover is strangely annoyed with fleas: and we have seen fleas, bed-fleas (pulex irritans), swarming at the mouths of these holes, like bees on the stools of their hives.

The following circumstance should by no means be omitted—that these birds do not make use of their caverns by way of hibernacula, as might be expected; since banks so perforated have been dug out with care in the winter, when nothing was found but empty nests.

The sand-martin arrives much about the same time with the swallow, and lays, as she does, from four to six white eggs. But as this species is cryptogame, carrying on the business of nidification, incubation, and the support of its young in the dark, it would not be so easy to ascertain the time of breeding, were it not for the coming forth of the broods, which appear much about the time, or rather somewhat earlier than those of the swallow. The nestlings are supported in common like those of their congeners, with gnats and other small insects; and sometimes they are fed with libellula (dragon-
NATURAL HISTORY

(dragon-flies) almost as long as themselves. In the last week in June we have seen a row of these sitting on a rail near a great pool as perchers; and so young and helpless, as easily to be taken by hand: but whether the dams ever feed them on the wing, as swallows and house-martins do, we have never yet been able to determine; nor do we know whether they pursue and attack birds of prey.

When they happen to breed near hedges and enclosures, they are dispossessed of their breeding holes by the house-sparrow, which is on the same account a fell adversary to house-martins.

These hirundines are no longsters, but rather mute, making only a little harsh noise when a person approaches their nests. They seem not to be of a sociable turn, never with us congregating with their congeners in the autumn. Undoubtedly they breed a second time, like the house-martin and swallow; and withdraw about Michaelmas.

Though in some particular districts they may happen to abound, yet in the whole, in the south of England at least, is this much the rarest species. For there are few towns or large villages but what abound with house-martins; few churches, towers, or steeples, but what are haunted by some swifts; scarce a hamlet or single cottage-chimney that has not its swallow; while the bank-martins, scattered here and there, live a sequestered life among some abrupt sand-hills, and in the banks of some few rivers.

These birds have a peculiar manner of flying; flitting about with odd jerks, and vacillations, not unlike the motions of a butterfly. Doubtless the flight of all hirundines is influenced by, and adapted to, the peculiar sort of insects which furnish their food. Hence it would be worth inquiry to examine what particular genus of insects affords the principal food of each respective species of swallow.
OF SELBORNE.

Notwithstanding what has been advanced above, some few sand-martins, I see, haunt the skirts of London, frequenting the dirty pools in Saint George's-Fields, and about White-Chapel. The question is where these build, since there are no banks or bold shores in that neighbourhood: perhaps they nestle in the scaffold holes of some old or new deserted building. They dip and wash as they fly sometimes, like the house-martin and swallow.

Sand-martins differ from their congeners in the diminutiveness of their size, and in their colour, which is what is usually called a mouse-colour. Near Valencia, in Spain, they are taken, says Willughby, and sold in the markets for the table; and are called by the country people, probably from their defultory jerking manner of flight, Papilion de Montagna.

LETTER XXI.

TO THE SAME.

DEAR SIR,

Selborne, Sept. 28, 1774.

As the swift or black-martin is the largest of the British birundines, so is it undoubtedly the latest comer. For I remember but one instance of it's appearing before the last week in April: and in some of our late frosty, harsh springs, it has not been seen till the beginning of May. This species usually arrives in pairs.

A a 2 The
The swift, like the sand-martin, is very defective in architecture, making no crust, or shell, for its nest; but forming it of dry grasses and feathers, very rudely and inartificially put together. With all my attention to these birds, I have never been able once to discover one in the act of collecting or carrying in materials; so that I have suspected (since their nests are exactly the same) that they sometimes usurp upon the house-sparrows, and expel them, as sparrows do the house and sand-martin; well remembering that I have seen them squabbling together at the entrance of their holes; and the sparrows up in arms, and much-disconcerted at these intruders. And yet I am assured, by a nice observer in such matters, that they do collect feathers for their nests in Andalusia; and that he has shot them with such materials in their mouths.

Swifts, like sand-martins, carry on the business of nidification quite in the dark, in crannies of castles, and towers, and steeples, and upon the tops of the walls of churches under the roof; and therefore cannot be so narrowly watched as those species that build more openly: but, from what I could ever observe, they begin nesting about the middle of May; and I have remarked, from eggs taken, that they have sat hard by the ninth of June. In general they haunt tall buildings, churches, and steeples, and breed only in such: yet in this village some pairs frequent the lowest and meanest cottages, and educate their young under those thatched roofs. We remember but one instance where they breed out of buildings; and that is in the sides of a deep chalkpit near the town of Odham, in this county, where we have seen many pairs entering the crevices, and skimming and squeaking round the precipices.

As I have regarded these amusive birds with no small attention, if I should advance something new and peculiar with respect to them, and different from all other birds, I might perhaps be credited;
OF SELBORNE.

Edited; especially as my assertion is the result of many years exact observation. The fact that I would advance is, that swifts tread, or copulate, on the wing; and I would with any nice observer, that is startled at this supposition, to use his own eyes, and I think he will soon be convinced. In another class of animals, viz. the insect, nothing is so common as to see the different species of many genera in conjunction as they fly. The swift is almost continually on the wing; and as it never settles on the ground, on trees, or roofs, would seldom find opportunity for amorous rites, was it not enabled to indulge them in the air. If any person would watch these birds of a fine morning in May, as they are sailing round at a great height from the ground, he would see, every now and then, one drop on the back of another, and both of them sink down together for many fathoms with a loud piercing shriek. This I take to be the juncture when the business of generation is carrying on.

As the swift eats, drinks, collects materials for its nest, and, as it seems, propagates on the wing; it appears to live more in the air than any other bird, and to perform all functions there save those of sleeping and incubation.

This Hirundo differs widely from its congeners in laying invariably but two eggs at a time, which are milk-white, long, and peaked at the small end; whereas the other species lay at each brood from four to six. It is a most alert bird, rising very early, and retiring to roost very late; and is on the wing in the height of summer at least sixteen hours. In the longest days it does not withdraw to rest till a quarter before nine in the evening, being the latest of all day birds. Just before they retire whole groups of them assemble high in the air, and squeak, and shoot about with wonderful rapidity. But this bird is never so much alive as in sultry thundery weather, when it expresses great alacrity, and calls forth
forth all it's powers. In hot mornings several, getting together in little parties, dash round the steepled and churches, squeaking as they go in a very clamorous manner: these, by nice observers, are supposed to be males serenading their sitting hens; and not without reason, since they seldom squeak till they come close to the walls or eaves, and since those within utter at the same time a little inward note of complacency.

When the hen has fat hard all day, she rushes forth just as it is almost dark, and stretches and relieves her weary limbs, and snatches a scanty meal for a few minutes, and then returns to her duty of incubation. Swifts, when wantonly and cruelly shot while they have young, discover a little lump of insects in their mouths, which they pouch and hold under their tongue. In general they feed in a much higher district than the other species; a proof that gnats and other insects do also abound to a considerable height in the air: they also range to vast distances; since loco-motion is no labour to them, who are endowed with such wonderful powers of wing. Their powers seem to be in proportion to their leavers; and their wings are longer in proportion than those of almost any other bird. When they mute, or case themselves in flight, they raise their wings, and make them meet over their backs.

At some certain times in the summer I had remarked that swifts were hawking very low for hours together over pools and streams; and could not help inquiring into the object of their pursuit that induced them to descend so much below their usual range. After some trouble, I found that they were taking phryganeae, ephemerae, and libellulae (cadew-flies, may-flies, and dragon-flies) that were just emerged out of their aurelia state. I then no longer wondered that they should be so willing to swoop for a prey that afforded them such plentiful and succulent nourishment.

They
They bring out their young about the middle or latter end of July: but as these never become perchers, nor, that ever I could discern, are fed on the wing by their dams, the coming forth of the young is not so notorious as in the other species.

On the thirtieth of last June I untilled the eaves of an house where many pairs build, and found in each nest only two squab, naked pulli: on the eighth of July I repeated the same inquiry, and found they had made very little progress towards a fledged state, but were still naked and helpless. From whence we may conclude that birds whose way of life keeps them perpetually on the wing would not be able to quit their nest till the end of the month. Swallows and martins, that have numerous families, are continually feeding them every two or three minutes; while swifts, that have but two young to maintain, are much at their leisure, and do not attend on their nests for hours together.

Sometimes they pursue and strike at hawks that come in their way; but not with that vehemence and fury that swallows express on the same occasion. They are out all day long in wet days, feeding about, and disregarding still rain: from whence two things may be gathered; first, that many insects abide high in the air, even in rain; and next, that the feathers of these birds must be well preened to resist so much wet. Windy, and particularly windy weather with heavy showers, they dislike; and on such days withdraw, and are scarce ever seen.

There is a circumstance respecting the colour of swifts, which seems not to be unworthy our attention. When they arrive in the spring they are all over of a glossy, dark foot-colour, except their chins, which are white; but, by being all day long in the sun and air, they become quite weather-beaten and bleached before they depart, and yet they return glossy again in the spring. Now, if they
they pursue the sun into lower latitudes, as some suppose, in order to enjoy a perpetual summer, why do they not return bleached? Do they not rather perhaps retire to rest for a season, and at that juncture moult and change their feathers, since all other birds are known to moult soon after the season of breeding?

Swifts are very anomalous in many particulars, differing from all their congeners not only in the number of their young, but in breeding but once in a summer; whereas all the other British hirundines breed invariably twice. It is past all doubt that swifts can breed but once, since they withdraw in a short time after the flight of their young, and some time before their congeners bring out their second broods. We may here remark, that, as swifts breed but once in a summer, and only two at a time, and the other hirundines twice, the latter, who lay from four to six eggs, increase at an average five times as fast as the former.

But in nothing are swifts more singular than in their early retreat. They retire, as to the main body of them, by the tenth of August, and sometimes a few days sooner: and every straggler invariably withdraws by the twentieth, while their congeners, all of them, stay till the beginning of October; many of them all through that month, and some occasionally to the beginning of November. This early retreat is mysterious and wonderful, since that time is often the sweetest season in the year. But, what is more extraordinary, they begin to retire still earlier in the most southerly parts of Andalusia, where they can be no ways influenced by any defect of heat; or, as one might suppose, defect of food. Are they regulated in their motions with us by a failure of food, or by a propensity to moulting, or by a disposition to rest after so rapid a life, or by what? This is one of those incidents in natural history that not only baffles our searches, but almost eludes our guesses!
These hirundines never perch on trees or roofs, and so never congregate with their congeneres. They are fearles while haunting their nesting places, and are not to be scared with a gun; and are often beaten down with poles and cudgels as they stoop to go under the eaves. Swifts are much infested with those pests to the genus called *hippoboscae hirundinis*; and often wriggle and scratch themselves, in their flight, to get rid of that clinging annoyance.

Swifts are no songsters, and have only one harsh screaming note; yet there are ears to which it is not displeasing, from an agreeable association of ideas, since that note never occurs but in the most lovely summer weather.

They never settle on the ground but through accident; and when down can hardly rise, on account of the shortness of their legs and the length of their wings: neither can they walk, but only crawl; but they have a strong grasp with their feet, by which they cling to walls. Their bodies being flat they can enter a very narrow crevice; and where they cannot pass on their bellies they will turn up edgewise.

The particular formation of the foot discriminates the swift from all the British hirundines; and indeed from all other known birds, the *hirundo melba*, or great white-bellied swift of Gibraltar, excepted; for it is so disposed as to carry "*omnes quatuor digitos anticos*" all it’s four toes forward; besides the least toe, which should be the back-toe, consists of one bone alone, and the other three only of two apiece. A construction most rare and peculiar, but nicely adapted to the purposes in which their feet are employed. This, and some peculiarities attending the nostrils and under mandible, have induced a discerning \(^h\) naturalist to suppose that this *species* might constitute a genus *per se*.

\(^h\) John Antony Scopoli, of Carniola, M. D.
In London a party of swifts frequents the Tower, playing and feeding over the river just below the bridge: others haunt some of the churches of the Borough next the fields; but do not venture, like the house-martin, into the close crowded part of the town.

The Swedes have bestowed a very pertinent name on this swallow, calling it ring svala, from the perpetual rings or circles that it takes round the scene of it's nidification.

Swifts feed on coleoptera, or small beetles with hard cases over their wings, as well as on the softer insects; but it does not appear how they can procure gravel to grind their food, as swallows do, since they never settle on the ground. Young ones, over-run with hippoboscae, are sometimes found, under their nests, fallen to the ground; the number of vermin rendering their abode insupportable any longer. They frequent in this village several abject cottages; yet a succession still haunts the same unlikely roofs: a good proof this that the same birds return to the same spots. As they must loop very low to get up under these humble eaves, cats lie in wait, and sometimes catch them on the wing.

On the fifth of July, 1775, I again untiled part of a roof over the nest of a swift. The dam sat in the nest; but so strongly was she affected by natural πτέρυγα for her brood, which she supposed to be in danger, that, regardless of her own safety, she would not stir, but lay sullenly by them, permitting herself to be taken in hand. The squab young we brought down and placed on the grazs-plot, where they tumbled about, and were as helpless as a new-born child. While we contemplated their naked bodies, their unwieldy disproportioned abdomina, and their heads, too heavy for their necks to support, we could not but wonder when we reflected that these shiftless beings in a little more than a fortnight would be able to dash through the air almost with the inconceivable
OF SELBORNE.

inconceivable swiftness of a meteor; and perhaps, in their emigration, must traverse vast continents and oceans as distant as the equator. So soon does Nature advance small birds to their θάλασσα, or state of perfection; while the progressive growth of men and large quadrupeds is slow and tedious!

I am, &c.

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LETTER XXII.

TO THE SAME.

DEAR SIR,

Selborne, Sept. 23, 1774.

By means of a straight cottage-chimney I had an opportunity this summer of remarking, at my leisure, how swallows ascend and descend through the shaft: but my pleasure, in contemplating the address with which this feat was performed to a considerable depth in the chimney, was somewhat interrupted by apprehensions left my eyes might undergo the same fate with those of Tobit.¹

Perhaps it may be some amusement to you to hear at what times the different species of hirundines arrived this spring in three very distant counties of this kingdom. With us the

¹ Tobit 2. 10.

B b 2
NATURAL HISTORY

Swallow was seen first on April the 4th, the swift on April the 24th, the bank-martin on April the 12th, and the house-martin not till April the 30th. At South Zele, Devonshire, swallows did not arrive till April the 25th; swifts, in plenty, on May the 1st; and house-martins not till the middle of May. At Blackburn, in Lancashire, swifts were seen April the 28th, swallows April the 29th, house-martins May the 1st. Do these different dates, in such distant districts, prove any thing for or against migration?

A farmer, near Weyhill, fallows his land with two teams of asses; one of which works till noon, and the other in the afternoon. When these animals have done their work, they are penned all night, like sheep, on the fallow. In the winter they are confined and foddered in a yard, and make plenty of dung.

Linnaeus says that hawks "pacisuntur inducias cum avibus, quamdiu eculeus eculet:" but it appears to me that, during that period, many little birds are taken and destroyed by birds of prey, as may be seen by their feathers left in lanes and under hedges.

The miffel-thrush is, while breeding, fierce and pugnacious, driving such birds as approach its nest, with great fury, to a distance. The Welsh call it pen y llwyn, the head or master of the coppice. He suffers no magpie, jay, or blackbird, to enter the garden where he haunts; and is, for the time, a good guard to the new-fown legumens. In general he is very successful in the defence of his family: but once I observed in my garden, that several magpies came determined to storm the nest of a miffel-thrush: the dams defended their mansion with great vigour, and fought resolutely pro aris & focis; but numbers at last prevailed, they tore the nest to pieces, and swallowed the young alive.
In the season of nidification the wildest birds are comparatively tame. Thus the ring-dove breeds in my fields, though they are continually frequented; and the missel-thrush, though most shy and wild in the autumn and winter, builds in my garden close to a walk where people are passing all day long.

Wall-fruit abounds with me this year; but my grapes, that used to be forward and good, are at present backward beyond all precedent: and this is not the worst of the story; for the same ungenial weather, the same black cold solstice, has injured the more necessary fruits of the earth, and discoloured and blighted our wheat. The crop of hops promises to be very large.

Frequent returns of deafness incommode me sadly, and half disqualify me for a naturalist; for, when those fits are upon me, I lose all the pleasing notices and little intimations arising from rural sounds; and May is to me as silent and mute with respect to the notes of birds, &c. as August. My eyesight is, thank God, quick and good; but with respect to the other sense, I am, at times, disabled:

"And Wisdom at one entrance quite shut out."

LETTER
DEAR SIR,

Selborne, June 8, 1775.

On September the 21st, 1741, being then on a visit, and intent on field-diversions, I rose before daybreak: when I came into the enclosures, I found the stubbles and clover-grounds matted all over with a thick coat of cobweb, in the meshes of which a copious and heavy dew hung so plentifully that the whole face of the country seemed, as it were, covered with two or three setting-nets drawn one over another. When the dogs attempted to hunt, their eyes were so blinded and hoodwinked that they could not proceed, but were obliged to lie down and scrape the incumbrances from their faces with their fore-feet, so that, finding my sport interrupted, I returned home musing in my mind on the oddness of the occurrence.

As the morning advanced the sun became bright and warm, and the day turned out one of those most lovely ones which no season but the autumn produces; cloudless, calm, serene, and worthy of the South of France itself.

About nine an appearance very unusual began to demand our attention, a shower of cobwebs falling from very elevated regions, and continuing, without any interruption, till the close of the day. These webs were not single filmy threads, floating in the air in all directions, but perfect flakes or rags; some near an inch
inch broad, and five or six long, which fell with a degree of velocity that shewed they were considerably heavier than the atmosphere.

On every side as the observer turned his eyes might he behold a continual succession of fresh flakes falling into his sight, and twinkling like stars as they turned their sides towards the sun.

How far this wonderful shower extended would be difficult to say; but we know that it reached Bradley, Selborne, and Alresford, three places which lie in a sort of a triangle, the shortest of whose sides is about eight miles in extent.

At the second of those places there was a gentleman (for whose veracity and intelligent turn we have the greatest veneration) who observed it the moment he got abroad; but concluded that, as soon as he came upon the hill above his house, where he took his morning rides, he should be higher than this meteor, which he imagined might have been blown, like Thistle-down, from the common above: but, to his great astonishment, when he rode to the most elevated part of the down, 300 feet above his fields, he found the webs in appearance still as much above him as before; still descending into sight in a constant succession, and twinkling in the sun, so as to draw the attention of the most incurious.

Neither before nor after was any such fall observed; but on this day the flakes hung in the trees and hedges so thick, that a diligent person sent out might have gathered baskets full.

The remark that I shall make on these cobweb-like appearances, called goffamer, is, that, strange and superstitious as the notions about them were formerly, nobody in these days doubts but that they are the real production of small spiders, which swarm in the fields in fine weather in autumn, and have a power of shooting out webs from their tails so as to render themselves buoyant, and lighter
lighter than air. But why these apterous insects should *that day* take such a wonderful aerial excursion, and why their webs should at once become so gross and material as to be considerably more weighty than air, and to descend with precipitation, is a matter beyond my skill. If I might be allowed to hazard a supposition, I should imagine that those filmy threads, when first shot, might be entangled in the rising dew, and so drawn up, spiders and all, by a brisk evaporation into the regions where clouds are formed: and if the spiders have a power of coiling and thickening their webs in the air, as Dr. Lister says they have, [see his Letters to Mr. Ray] then, when they were become heavier than the air, they must fall.

Every day in fine weather, in autumn chiefly, do I see those spiders shooting out their webs and mounting aloft: they will go off from your finger if you will take them into your hand. Last summer one alighted on my book as I was reading in the parlour; and, running to the top of the page, and shooting out a web, took it's departure from thence. But what I most wondered at was, that it went off with considerable velocity in a place where no air was stirring; and I am sure that I did not assist it with my breath. So that these little crawlers seem to have, while mounting, some loco-motive power without the use of wings, and to move in the air faster than the air itself.
OF SELBORNE.

LETTER XXIV.

TO THE SAME.

DEAR SIR,

Selborne, Aug. 15, 1775.

There is a wonderful spirit of sociality in the brute creation, independent of sexual attachment: the congregating of gregarious birds in the winter is a remarkable instance.

Many horses, though quiet with company, will not stay one minute in a field by themselves: the strongest fences cannot restrain them. My neighbour's horse will not only not stay by himself abroad, but he will not bear to be left alone in a strange stable without discovering the utmost impatience, and endeavouring to break the rack and manger with his fore feet. He has been known to leap out at a stable-window, through which dung was thrown, after company; and yet in other respects is remarkably quiet. Oxen and cows will not fatten by themselves; but will neglect the finest pasture that is not recommended by society. It would be needless to instance in sheep, which constantly flock together.

But this propensity seems not to be confined to animals of the same species; for we know a doe, still alive, that was brought up from a little fawn with a dairy of cows; with them it goes a-field, and with them it returns to the yard. The dogs of the house take no notice of this deer, being used to her; but, if strange dogs come by, a chase ensues; while the master smiles to see his favourite securely leading her pursuers over hedge, or gate,
NATURAL HISTORY

gate, or stable, till she returns to the cows, who, with fierce lowings and menacing horns, drive the assailants quite out of the pasture.

Even great disparity of kind and size does not always prevent social advances and mutual fellowship. For a very intelligent and observant person has assured me that, in the former part of his life, keeping but one horse, he happened also on a time to have but one solitary hen. These two incongruous animals spent much of their time together in a lonely orchard, where they saw no creature but each other. By degrees an apparent regard began to take place between these two sequestered individuals. The fowl would approach the quadruped with notes of complacency, rubbing herself gently against his legs: while the horse would look down with satisfaction, and move with the greatest caution and circumspection, lest he should trample on his diminutive companion. Thus, by mutual good offices, each seemed to console the vacant hours of the other: so that Milton, when he puts the following sentiment in the mouth of Adam, seems to be somewhat mistaken:

"Much less can bird with beast, or fish with fowl,
"So well converse, nor with the ox the ape."

I am, &c.

LETTER
OF SELBORNE.

LETTER XXV.

TO THE SAME.

DEAR SIR,

Selborne, Oct. 2, 1775.

We have two gangs or hordes of gypsies which infest the south and west of England, and come round in their circuit two or three times in the year. One of these tribes calls itself by the noble name of Stanley, of which I have nothing particular to say; but the other is distinguished by an appellative somewhat remarkable—As far as their harsh gibberish can be understood, they seem to say that the name of their clan is Curleople: now the termination of this word is apparently Grecian: and as Mezeray and the gravest historians all agree that these vagrants did certainly migrate from Egypt and the East, two or three centuries ago, and so spread by degrees over Europe, may not this family-name, a little corrupted, be the very name they brought with them from the Levant? It would be matter of some curiosity, could one meet with an intelligent person among them, to inquire whether, in their jargon, they still retain any Greek words: the Greek radicals will appear in hand, foot, head, water, earth, &c. It is possible that amidst their cant and corrupted dialect many mutilated remains of their native language might still be discovered.

With regard to those peculiar people, the gypsies, one thing is very remarkable, and especially as they came from warmer climates; and that is, that while other beggars lodge in barns, 

stable,
ftables, and cow-houses, these sturdy savages seem to pride themselves in braving the severities of winter, and in living sub dio the whole year round. Last September was as wet a month as ever was known; and yet during those deluges did a young gypsy-girl lie-in in the midst of one of our hop-gardens, on the cold ground, with nothing over her but a piece of a blanket extended on a few hazel-rods bent hoop fashion, and stuck into the earth at each end, in circumstances too trying for a cow in the same condition: yet within this garden there was a large hop-kiln, into the chambers of which she might have retired, had she thought shelter an object worthy her attention.

Europe itself, it seems, cannot set bounds to the rovings of these vagabonds; for Mr. Bell, in his return from Peking, met a gang of these people on the confines of Tartary, who were endeavouring to penetrate those deserts and try their fortune in China.

Gypsies are called in French, Bobemiens; in Italian and modern Greek, Zingani.

I am, &c.

* See Bell's Travels in China.
OF SELBORNE.

LETTER XXVI.

TO THE SAME.

DEAR SIR,

Selborne, Nov. 1, 1775.

"Hic - - - tædæ pingues, hic plurimus ignis
"Semper, et assiduæ postes fuligine nigri."

I shall make no apology for troubling you with the detail of a very simple piece of domestic œconomy, being satisfied that you think nothing beneath your attention that tends to utility: the matter alluded to is the use of rushes instead of candles, which I am well aware prevails in many districts besides this; but as I know there are countries also where it does not obtain, and as I have considered the subject with some degree of exactness, I shall proceed in my humble story, and leave you to judge of the expediency.

The proper species of rush for this purpose seems to be the juncus effusus, or common soft rush, which is to be found in most moist pastures, by the sides of streams, and under hedges. These rushes are in best condition in the height of summer; but may be gathered, so as to serve the purpose well, quite on to autumn. It would be needless to add that the largest and longest are best. Decayed labourers, women, and children, make it their business to procure and prepare them. As soon as they are cut they must be flung into water, and kept there; for otherwise they will dry and shrink, and the peel will not run. At first a person would find
find it no easy matter to divest a rush of its peel or rind, so as to leave one regular, narrow, even rib from top to bottom that may support the pith: but this, like other feats, soon becomes familiar even to children; and we have seen an old woman, stone-blind, performing this business with great dispatch, and seldom failing to strip them with the nicest regularity. When these *junci* are thus far prepared, they must lie out on the grass to be bleached, and take the dew for some nights, and afterwards be dried in the sun.

Some address is required in dipping these rushes in the scalding fat or grease; but this knack also is to be attained by practice. The careful wife of an industrious *Hampshire* labourer obtains all her fat for nothing; for she saves the scumings of her bacon-pot for this use; and, if the grease abounds with salt, she causes the salt to precipitate to the bottom, by setting the scumings in a warm oven. Where hogs are not much in use, and especially by the sea-side, the coarser animal-oils will come very cheap. A pound of common grease may be procured for four pence; and about six pounds of grease will dip a pound of rushes; and one pound of rushes may be bought for one shilling: so that a pound of rushes, medicated and ready for use, will cost three shillings. If men that keep bees will mix a little wax with the grease, it will give it a consistency, and render it more cleanly, and make the rushes burn longer: mutton-fuet would have the same effect.

A good rush, which measured in length two feet four inches and an half, being minutely, burnt only three minutes short of an hour: and a rush still of greater length has been known to burn one hour and a quarter.

These rushes give a good clear light. Watch-lights (coated with tallow), it is true, shed a dismal one, "darkness visible;" but then
then the wick of those have *two* ribs of the rind, or peel, to support the pith, while the wick of the dipped rush has but *one*. The *two* ribs are intended to impede the progress of the flame and make the candle last.

In a pound of dry rushes, avoirdupois, which I caused to be weighed and numbered, we found upwards of one thousand six hundred individuals. Now suppose each of these burns, one with another, only half an hour, then a poor man will purchase eight hundred hours of light, a time exceeding thirty-three entire days, for three shillings. According to this account each rush, before dipping, costs $\frac{1}{3}$ of a farthing, and $\frac{1}{4}$ afterwards. Thus a poor family will enjoy $5\frac{1}{2}$ hours of comfortable light for a farthing. An experienced old housekeeper assures me that one pound and an half of rushes completely supplies his family the year round, since working people burn no candle in the long days, because they rise and go to bed by daylight.

Little farmers use rushes much in the short days, both morning and evening, in the dairy and kitchen; but the very poor, who are always the worst oeconomists, and therefore must continue very poor, buy an halfpenny candle every evening, which, in their blowing open rooms, does not burn much more than two hours. Thus have they only two hours light for their money instead of eleven.

While on the subject of rural oeconomy, it may not be improper to mention a pretty implement of housewifery that we have seen no where else; that is, little neat becoms which our foresters make from the stalks of the *polytricum commune*, or great golden maiden-hair, which they call *fïlk-wood*, and find plenty in the bogs. When this moss is well combed and dressed, and divested of its outer skin, it becomes of a beautiful bright-chesnut colour; and, being soft
soft and pliant, is very proper for the dusting of beds, curtains, carpets, hangings, &c. If these besoms were known to the brush-makers in town, it is probable they might come much in use for the purpose above-mentioned.¹

I am, &c.
feize them *nudis manibus*, and at once disarm them of their weapons, and suck their bodies for the sake of their honey-bags. Sometimes he would fill his bosom between his shirt and his skin with a number of these captives; and sometimes would confine them in bottles. He was a very *merops apiaster*, or *bee-bird*; and very injurious to men that kept bees; for he would slide into their bee-gardens, and, sitting down before the stools, would rap with his finger on the hives, and so take the bees as they came out. He has been known to overturn hives for the sake of honey, of which he was passionately fond. Where metheglin was making he would linger round the tubs and vessels, begging a draught of what he called *bee-wine*. As he ran about he used to make a humming noise with his lips, resembling the buzzing of bees. This lad was lean and fallow, and of a cadaverous complexion; and, except in his favourite pursuit, in which he was wonderfully adroit, discovered no manner of understanding. Had his capacity been better, and directed to the same object, he had perhaps abated much of our wonder at the feats of a more modern exhibiter of bees: and we may justly say of him now,

"— — — — — — — Thou,
"Had thy presiding star propitious shone,
"Should 'tildman be — — — —."

When a tall youth he was removed from hence to a distant village, where he died, as I understand, before he arrived at manhood.

I am, &c.
DEAR SIR,

Selborne, Jan. 2, 1776.

It is the hardest thing in the world to shake off superstitious prejudices: they are fixed in as it were with our mother's milk; and, growing up with us at a time when they take the fastest hold and make the most lasting impressions, become so interwoven into our very constitutions, that the strongest good sense is required to disengage ourselves from them. No wonder therefore that the lower people retain them their whole lives through, since their minds are not invigorated by a liberal education, and therefore not enabled to make any efforts adequate to the occasion.

Such a preamble seems to be necessary before we enter on the superstitions of this district, lest we should be suspected of exaggeration in a recital of practices too gross for this enlightened age.

But the people of Tring, in Hertfordshire, would do well to remember, that no longer ago than the year 1751, and within twenty miles of the capital, they seized on two superannuated wretches, crazed with age, and overwhelmed with infirmities, on a suspicion of witchcraft; and, by trying experiments, drowned them in a horse-pond.

In a farm-yard near the middle of this village stands, at this day, a row of pollard-ashes, which, by the seams and long cicatrices down their sides, manifestly shew that, in former times, they have been cleft asunder. These trees, when young and flexible, were fevered and held open by wedges, while ruptured children, stripped
ped naked, were pushed through the apertures, under a persuasion that, by such a process, the poor babes would be cured of their infirmity. As soon as the operation was over, the tree, in the suffering part, was plastered with loam, and carefully swathed up. If the parts coalesced and soldered together, as usually fell out, where the feat was performed with any adroitness at all, the party was cured; but, where the cleft continued to gape, the operation, it was supposed, would prove ineffectual. Having occasion to enlarge my garden not long since, I cut down two or three such trees, one of which did not grow together.

We have several persons now living in the village, who, in their childhood, were supposed to be healed by this superstitious ceremony, derived down perhaps from our Saxon ancestors, who practised it before their conversion to Christianity.

At the south corner of the Plestor, or area, near the church, there stood, about twenty-years ago, a very old grotesque hollow pollard-ash, which for ages had been looked on with no small veneration as a shrew-ash. Now a shrew-ash is an ash whose twigs or branches, when gently applied to the limbs of cattle, will immediately relieve the pains which a beast suffers from the running of a shrew-mouse over the part affected: for it is supposed that a shrew-mouse is of so baneful and deleterious a nature, that wherever it creeps over a beast, be it horse, cow, or sheep, the suffering animal is afflicted with cruel anguish, and threatened with the loss of the use of the limb. Against this accident, to which they were continually liable, our provident fore-fathers always kept a shrew-ash at hand, which, when once medicated, would maintain it's virtue for ever. A shrew-ash was made thus:

\[\text{For a similar practice, see Plut's Staffordshire.}\]

D d 2
tree a deep hole was bored with an auger, and a poor devoted shrew-mouse was thrust in alive, and plugged in, no doubt, with several quaint incantations long since forgotten. As the ceremonies necessary for such a consecration are no longer understood, all succession is at an end, and no such tree is known to subsist in the manor, or hundred.

As to that on the Plestor

"The late vicar stubb'd and burnt it."

when he was way-warden, regardless of the remonstrances of the by-standers, who interceded in vain for its preservation, urging its power and efficacy, and alleging that it had been

"Religione patrum multis servata per annos."

I am, &c.

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LETTER XXIX.

TO THE SAME.

DEAR SIR,

Seldorne, Feb. 7, 1776.

In heavy fogs, on elevated situations especially, trees are perfect alembics; and no one that has not attended to such matters can imagine how much water one tree will distil in a night's time, by condensing the vapour, which trickles down the twigs and boughs, so as to make the ground below quite in a float. In Newton-lane,
in October 1775, on a misty day, a particular oak in leaf dropped so fast that the cart-way flooded in puddles and the ruts ran with water, though the ground in general was dusty.

In some of our smaller islands in the West-Indies, if I mistake not, there are no springs or rivers; but the people are supplied with that necessary element, water, merely by the dripping of some large tall trees, which, standing in the bosom of a mountain, keep their heads constantly enveloped with fogs and clouds, from which they disperse their kindly never-ceasing moisture; and so render those districts habitable by condensation alone.

Trees in leaf have such a vast proportion more of surface than those that are naked, that, in theory, their condensations should greatly exceed those that are stripped of their leaves; but, as the former imbibe also a great quantity of moisture, it is difficult to say which drip most: but this I know, that deciduous trees that are entwined with much ivy seem to distill the greatest quantity. Ivy-leaves are smooth, and thick, and cold, and therefore condense very fast; and besides ever-greens imbibe very little. These facts may furnish the intelligent with hints concerning what sorts of trees they should plant round small ponds that they would wish to be perennial; and shew them how advantageous some trees are in preference to others.

Trees perspire profusely, condense largely, and check evaporation so much, that woods are always moist; no wonder therefore that they contribute much to pools and streams.

That trees are great promoters of lakes and rivers appears from a well known fact in North-America; for, since the woods and forests have been grubbed and cleared, all bodies of water are much diminished; so that some streams, that were very considerable a
century ago, will not now drive a common mill. Besides, most woodlands, forests, and chases, with us abound with pools and morasses; no doubt for the reason given above.

To a thinking mind few phenomena are more strange than the state of little ponds on the summits of chalk-hills, many of which are never dry in the most trying droughts of summer. On chalk-hills I say, because in many rocky and gravelly soils springs usually break out pretty high on the sides of elevated grounds and mountains; but no person acquainted with chalky districts will allow that they ever saw springs in such a soil but in vallies and bottoms, since the waters of so pervious a stratum as chalk all lie on one dead level, as well-diggers have assured me again and again.

Now we have many such little round ponds in this district; and one in particular on our sheep-down, three hundred feet above my house; which, though never above three feet deep in the middle, and not more than thirty feet in diameter, and containing perhaps not more than two or three hundred hogheads of water, yet never is known to fail, though it affords drink for three hundred or four hundred sheep, and for at least twenty head of large cattle beside. This pond, it is true, is overhung with two moderate beeches, that, doubtless, at times afford it much supply: but then we have others as small, that, without the aid of trees, and in spite of evaporation from sun and wind, and perpetual consumption by cattle, yet constantly maintain a moderate share of water, without overflowing in the wettest seasons, as they would do if supplied by springs. By my journal of May, 1775, it appears that "the small " and even considerable ponds in the vales are now dried up, while " the small ponds on the very tops of hills are but little affected." Can this difference be accounted for from evaporation alone, which certainly is more prevalent in bottoms? or rather have not those

* Vide Kalm's Travels to North-America.
elevated pools some unnoticed recruits, which in the night time counterbalance the waste of the day; without which the cattle alone must soon exhaust them? And here it will be necessary to enter more minutely into the cause. Dr. Hales, in his Vegetable Statics, advances, from experiment, that "the moister the earth is the more "dew falls on it in a night: and more than a double quantity of "dew falls on a surface of water than there does on an equal "surface of moist earth." Hence we see that water, by it's coolness, is enabled to assimilate to itself a large quantity of moisture nightly by condensation; and that the air, when loaded with fogs and vapours, and even with copious dews, can alone advance a considerable and never-failing resource. Persons that are much abroad, and travel early and late; such as shepherds, fishermen, &c. can tell what prodigious fogs prevail in the night on elevated downs, even in the hottest parts of summer; and how much the surfaces of things are drenched by those swimming vapours, though, to the senses, all the while, little moisture seems to fall.

I am, &c.
LETTER XXX.

TO THE SAME.

DEAR SIR,               SELBORNE, April 3, 1776.

Monsieur Herissant, a French anatomist, seems persuaded that he has discovered the reason why cuckoos do not hatch their own eggs; the impediment, he supposes, arises from the internal structure of their parts, which incapacitates them for incubation. According to this gentleman, the crop, or craw, of a cuckoo does not lie before the sternum at the bottom of the neck, as in the gallina, columba, &c. but immediately behind it, on and over the bowels, so as to make a large protuberance in the belly.

Induced by this assertion, we procured a cuckoo; and, cutting open the breast-bone, and exposing the intestines to sight, found the crop lying as mentioned above. This stomach was large and round, and fluffed hard like a pincushion with food, which, upon nice examination, we found to consist of various insects; such as small scarabs, spiders, and dragon-flies; the last of which we have seen cuckoos catching on the wing as they were just emerging out of the aurelia state. Among this farrago also were to be seen maggots, and many seeds, which belonged either to gooseberries, currants, cranberries, or some such fruit; so that these birds ap-

"Histoire de l'Academie Royale, 1752."
parently subsist on insects and fruits: nor was there the least appearance of bones, feathers, or fur, to support the idle notion of their being birds of prey.

The sternum in this bird seemed to us to be remarkably short, between which and the anus lay the crop, or craw, and immediately behind that the bowels against the back-bone.

It must be allowed, as this anatomist observes, that the crop placed just upon the bowels must, especially when full, be in a very uneasy situation during the business of incubation; yet the test will be to examine whether birds that are actually known to fit for certain are not formed in a similar manner. This inquiry I proposed to myself to make with a fern-owl, or goat-fucker, as soon as opportunity offered: because, if their formation proves the fame, the reason for incapacity in the cuckoo will be allowed to have been taken up somewhat hastily.

Not long after a fern-owl was procured, which, from its habit and shape, we suspected might resemble the cuckoo in its internal construction. Nor were our suspicions ill-grounded; for, upon the dissection, the crop, or craw, also lay behind the sternum, immediately on the viscera, between them and the skin of the belly. It was bulky, and fluffed hard with large phalæna, moths of several sorts, and their eggs, which no doubt had been forced out of those insects by the action of swallowing.

Now as it appears that this bird, which is so well known to practise incubation, is formed in a similar manner with cuckoos, Monsieur Heriffant's conjecture, that cuckoos are incapable of incubation from the disposition of their intestines, seems to fall to the ground; and we are still at a loss for the cause of that strange and singular peculiarity in the instance of the cuculus canorus.
We found the cafe to be the same with the ring-tail hawk, in respect to formation; and, as far as I can recollect, with the swift; and probably it is so with many more sorts of birds that are not granivorous.

I am, &c.

LETTER XXXI.

TO THE SAME.

DEAR SIR,

Selborne, April 29, 1776.

On August the 4th, 1775, we surprized a large viper, which seemed very heavy and bloated, as it lay in the grass basking in the sun. When we came to cut it up, we found that the abdomen was crowded with young, fifteen in number; the shortest of which measured full seven inches, and were about the size of full-grown earth-worms. This little fry issued into the world with the true viper-spirit about them, shewing great alertness as soon as disengaged from the belly of the dam: they twisted and wriggled about, and set themselves up, and gaped very wide when touched with a stick, shewing manifest tokens of menace and defiance, though as yet they had no manner of fangs that we could find, even with the help of our glasses.

To
OF SELBORNE.

To a thinking mind nothing is more wonderful than that early instinct which impresses young animals with the notion of the situation of their natural weapons, and of using them properly in their own defence, even before those weapons subsist or are formed. Thus a young cock will spar at his adversary before his spurs are grown; and a calf or a lamb will push with their heads before their horns are sprouted. In the same manner did these young adders attempt to bite before their fangs were in being. The dam however was furnished with very formidable ones, which we lifted up (for they fold down when not used) and cut them off with the point of our scissors.

There was little room to suppose that this brood had ever been in the open air before; and that they were taken in for refuge, at the mouth of the dam, when she perceived that danger was approaching; because then probably we should have found them somewhere in the neck, and not in the abdomen.

LETTER
Castration has a strange effect: it emasculates both man, beast, and bird, and brings them to a near resemblance of the other sex. Thus eunuchs have smooth unmuscular arms, thighs, and legs; and broad hips, and beardless chins, and squeaking voices. Gelt-flags and bucks have hornless heads, like hinds and does. Thus wethers have small horns, like ewes; and oxen large bent horns, and hoarse voices when they low, like cows: for bulls have short straight horns; and though they mutter and grumble in a deep tremendous tone, yet they low in a shrill high key. Capons have small combs and gills, and look pallid about the head, like pullets; they also walk without any parade, and hover chickens like hens. Barrow-hogs have also small tusks like fows.

Thus far it is plain that the deprivation of masculine vigour puts a stop to the growth of those parts or appendages that are looked upon as it's insignia. But the ingenious Mr. Lisle, in his book on husbandry, carries it much farther; for he says that the loss of those insignia alone has sometimes a strange effect on the ability itself: he had a boar so fierce and venereous, that, to prevent mischief, orders were given for his tusks to be broken off. No sooner had the beast suffered this injury than his powers forsook him, and he neglected those females to whom before he was passionately attached, and from whom no fences could restrain him.
The natural term of an hog's life is little known, and the reason is plain—because it is neither profitable nor convenient to keep that turbulent animal to the full extent of its time: however, my neighbour, a man of substance, who had no occasion to study every little advantage to a nicety, kept an half bred Bantam-sow, who was as thick as she was long, and whose belly swept on the ground till she was advanced to her seventeenth year; at which period she shewed some tokens of age by the decay of her teeth and the decline of her fertility.

For about ten years this prolific mother produced two litters in the year of about ten at a time, and once above twenty at a litter; but, as there were near double the number of pigs to that of teats, many died. From long experience in the world this female was grown very sagacious and artful:—when she found occasion to converse with a boar she used to open all the intervening gates, and march, by herself, up to a distant farm where one was kept; and when her purpose was served would return by the same means. At the age of about fifteen her litters began to be reduced to four or five; and such a litter she exhibited when in her fatting-pen. She proved, when fat, good bacon, juicy, and tender; the rind, or sward, was remarkably thin. At a moderate computation she was
was allowed to have been the fruitful parent of three hundred pigs: a prodigious instance of fecundity in so large a quadruped! She was killed in spring 1775.

I am, &c.

LETTER XXXIV.

TO THE SAME.

DEAR SIR, Selborne, May 9, 1776.

"— — — — admorunt ubera tigres."

We have remarked in a former letter how much incongruous animals, in a lonely state, may be attached to each other from a spirit of sociality; in this it may not be amiss to recount a different motive which has been known to create as strange a fondness.

My friend had a little helpless leveret brought to him, which the servants fed with milk in a spoon, and about the same time his cat kittens and the young were dispatched and buried. The hare was soon lost, and supposed to be gone the way of most fondlings, to be killed by some dog or cat. However, in about a fortnight, as the master was sitting in his garden in the dusk of the evening, he observed his cat, with tail erect, trotting towards him, and calling with little short inward notes of complacency, such
such as they use towards their kittens, and something gambolling after, which proved to be the leveret that the cat had supported with her milk, and continued to support with great affection.

Thus was a graminivorous animal nurtured by a carnivorous and predaceous one!

Why so cruel and sanguinary a beast as a cat, of the ferocious genus of Felis, the muriun leo, as Linnaeus calls it, should be affected with any tenderness towards an animal which is it's natural prey, is not so easy to determine.

This strange affection probably was occasioned by that desiderium, those tender maternal feelings, which the loss of her kittens had awakened in her breast; and by the complacency and ease she derived to herself from the procuring her teats to be drawn, which were too much distended with milk, till, from habit, she became as much delighted with this foundling as if it had been her real offspring.

This incident is no bad solution of that strange circumstance which grave historians as well as the poets assert, of exposed children being sometimes nurtured by female wild beasts that probably had lost their young. For it is not one whit more marvellous that Romulus and Remus, in their infant state, should be nursed by a she-wolf, than that a poor little fucking leveret should be fostered and cherished by a bloody grimalkin.

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"viridi foetam Mavortis in antro
Procubuisse lupam: geminos huic ubera circum
Ludere pendentes pueros, et lambere matrem
Impavidos: illam tereti cervice reflexam
Mulcre alternos, et corpora singere linguâ."

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LETTER
LANDS that are subject to frequent inundations are always poor; and probably the reason may be because the worms are drowned. The most insignificant insects and reptiles are of much more consequence, and have much more influence in the economy of Nature, than the incurious are aware of; and are mighty in their effect, from their minuteness, which renders them less an object of attention; and from their numbers and fecundity. Earth-worms, though in appearance a small and despicable link in the chain of Nature, yet, if lost, would make a lamentable chasm. For, to say nothing of half the birds, and some quadrupeds which are almost entirely supported by them, worms seem to be the great promoters of vegetation, which would proceed but lamely without them, by boring, perforating, and looening the soil, and rendering it pervious to rains and the fibres of plants, by drawing straws and stalks of leaves and twigs into it; and, most of all, by throwing up such infinite numbers of lumps of earth called worm-casts, which, being their excrement, is a fine manure for grain and grass. Worms probably provide new soil for hills and slopes where the rain washes the earth away; and they affect slopes, probably to avoid being flooded. Gardeners and farmers express their detestation of worms; the former because they render their walks unsightly, and make them much work; and the latter because, as they think, worms eat their green
green corn. But these men would find that the earth without worms would soon become cold, hard-bound, and void of fermentation; and consequently sterile: and besides, in favour of worms, it should be hinted that green corn, plants, and flowers, are not so much injured by them as by many species of *coleoptera* (scarabs), and *tipulae* (long-legs) in their larva, or grub-state; and by unnoticed myriads of small shell-less snails, called flugs, which silently and imperceptibly make amazing havoc in the field and garden.

These hints we think proper to throw out in order to set the inquisitive and discerning to work.

A good monography of worms would afford much entertainment and information at the same time, and would open a large and new field in natural history. Worms work most in the spring; but by no means lie torpid in the dead months; are out every mild night in the winter, as any person may be convinced that will take the pains to examine his grass-plots with a candle; are hermaphrodites, and much addicted to venery, and consequently very prolific.

I am, &c.

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9 Farmer Young, of Norton-farm, says that this spring (1777) about four acres of his wheat in one field was entirely destroyed by *flugs*, which swarmed on the blades of *corn*, and devoured it as fast as it sprang.
DEAR SIR,

Selborne, Nov. 22, 1777.

You cannot but remember that the twenty-sixth and twenty-seventh of last March were very hot days; so sultry that every body complained and were restles under those sensations to which they had not been reconciled by gradual approaches.

This sudden summer-like heat was attended by many summer coincidences; for on those two days the thermometer rose to sixty-six in the shade; many species of insects revived and came forth; some bees swarmed in this neighbourhood; the old tortoise, near Lewes, in Sussex, awakened and came forth out of its dormitory; and, what is most to my present purpose, many house-swallows appeared and were very alert in many places, and particularly at Cobham, in Surrey.

But as that short warm period was succeeded as well as preceded by harsh severe weather, with frequent frosts and ice, and cutting winds, the insects withdrew, the tortoise retired again into the ground, and the swallows were seen no more until the tenth of April, when, the rigour of the spring abating, a softer season began to prevail.

Again; it appears by my journals for many years past that house-martins retire, to a bird, about the beginning of October; so that a person not very observant of such matters would conclude that they had
had taken their last farewell: but then it may be seen in my diaries also that considerable flocks have discovered themselves again in the first week of November, and often on the fourth day of that month only for one day; and that not as if they were in actual migration, but playing about at their leisure and feeding calmly, as if no enterprize of moment at all agitated their spirits. And this was the case in the beginning of this very month; for, on the fourth of November, more than twenty house-martins, which, in appearance, had all departed about the seventh of October, were seen again, for that one morning only, sporting between my fields and the Hanger, and feasting on insects which swarmed in that sheltered distriët. The preceding day was wet and blustering, but the fourth was dark and mild, and soft, the wind at south-west, and the thermometer at 58°; a pitch not common at that season of the year.

Moreover, it may no tbe amiss to add in this place, that whenever the thermometer is above 50 the bat comes flitting out in every autumnal and winter-month.

From all these circumstances laid together, it is obvious that torpid insects, reptiles, and quadrupeds, are awakened from their profoundest slumbers by a little untimely warmth; and therefore that nothing so much promotes this death-like stupor as a defect of heat. And farther, it is reasonable to suppose that two whole species, or at least many individuals of those two species, of British hirundines, do never leave this island at all, but partake of the same benumbed state: for we cannot suppose that, after a month's absence, house-martins can return from southern regions to appear for one morning in November, or that house-swallows should leave the districts of Africa to enjoy, in March, the transient summer of a couple of days.

I am, &c.

LETTER
DEAR SIR,

There was in this village several years ago a miserable pauper, who, from his birth, was afflicted with a leprosy, as far as we are aware of a singular kind, since it affected only the palms of his hands and the soles of his feet. This scaly eruption usually broke out twice in the year, at the spring and fall; and, by peeling away, left the skin so thin and tender that neither his hands or feet were able to perform their functions; so that the poor object was half his time on crutches, incapable of employ, and languishing in a tiresome state of indolence and inactivity. His habit was lean, lank, and cadaverous. In this sad plight he dragged on a miserable existence, a burden to himself and his parish, which was obliged to support him till he was relieved by death at more than thirty years of age.

The good women, who love to account for every defect in children by the doctrine of longing, said that his mother felt a violent propensity for oysters, which she was unable to gratify; and that the black rough scurf on his hands and feet were the shells of that fish. We knew his parents, neither of which were lepers; his father in particular lived to be far advanced in years.

In all ages the leprosy has made dreadful havoc among mankind. The *Ipsaelites* seem to have been greatly afflicted with it from
from the most remote times; as appears from the peculiar and repeated injunctions given them in the Levitical law. Nor was the rancour of this foul disorder much abated in the last period of their commonwealth, as may be seen in many passages of the New Testament.

Some centuries ago this horrible distemper prevailed all Europe over; and our forefathers were by no means exempt, as appears by the large provision made for objects labouring under this calamity. There was an hospital for female lepers in the diocese of Lincoln, a noble one near Durham, three in London and Southwark, and perhaps many more in or near our great towns and cities. Moreover, some crowned heads, and other wealthy and charitable personages, bequeathed large legacies to such poor people as languished under this hopeless infirmity.

It must therefore, in these days, be, to an humane and thinking person, a matter of equal wonder and satisfaction, when he contemplates how nearly this pest is eradicated, and observes that a leper now is a rare sight. He will, moreover, when engaged in such a train of thought, naturally inquire for the reason. This happy change perhaps may have originated and been continued from the much smaller quantity of salted meat and fish now eaten in these kingdoms; from the use of linen next the skin; from the plenty of better bread; and from the profusion of fruits, roots, legumes, and greens, so common in every family. Three or four centuries ago, before there were any enclosures, sown-grasses, field-turnips, or field-carrots, or hay, all the cattle which had grown fat in summer, and were not killed for winter-use, were turned out soon after Michaelmas to shift as they could through the

* See Leviticus, chap. xiii. and xiv. 
dead months; so that no fresh meat could be had in winter or spring. Hence the marvellous account of the vast stores of salted flesh found in the larder of the eldhest Spencer in the days of Edward the Second, even so late in the spring as the third of May. It was from magazines like these that the turbulent barons supported in idlenes their riotous swarms of retainers ready for any disorder or mischief. But agriculture is now arrived at such a pitch of perfection, that our best and fatlest meats are killed in the winter; and no man need eat salted flesh, unless he prefers it, that has money to buy fresh.

One cause of this distemper might be, no doubt, the quantity of wretched fresh and salt fish consumed by the commonalty at all seasons as well as in lent; which our poor now would hardly be persuaded to touch.

The use of linen changes, shirts or shifts, in the room of sordid and filthy woollen, long worn next the skin, is a matter of neatness comparatively modern; but must prove a great means of preventing cutaneous ails. At this very time woollen instead of linen prevails among the poorer Welch, who are subject to foul eruptions.

The plenty of good wheaten bread that now is found among all ranks of people in the south, instead of that miserable sort which used in old days to be made of barley or beans, may contribute not a little to the sweetening their blood and correcting their juices; for the inhabitants of mountainous districts, to this day, are still liable to the itch and other cutaneous disorders, from a wretchedness and poverty of diet.

As to the produce of a garden, every middle-aged person of observation may perceive, within his own memory, both in town

*Viz. Six hundred bacons, eighty carcafses of beef, and six hundred muttons.*
and country, how vastly the consumption of vegetables is increased. Green-stalls in cities now support multitudes in a comfortable state, while gardeners get fortunes. Every decent labourer also has his garden, which is half his support, as well as his delight; and common farmers provide plenty of beans, peas, and greens, for their hinds to eat with their bacon; and those few that do not are despised for their fordid parsimony, and looked upon as regards of the welfare of their dependants. Potatoes have prevailed in this little district, by means of premiums, within these twenty years only; and are much esteemed here now by the poor, who would scarce have ventured to taste them in the last reign.

Our Saxon ancestors certainly had some sort of cabbage, because they call the month of February sprout-cake; but, long after their days, the cultivation of gardens was little attended to. The religious, being men of leisure, and keeping up a constant correspondence with Italy, were the first people among us that had gardens and fruit-trees in any perfection, within the walls of their abbies and priories. The barons neglected every pursuit that did not lead to war or tend to the pleasure of the chase.

It was not till gentlemen took up the study of horticulture themselves that the knowledge of gardening made such hasty advances. Lord Cobham, Lord Ilia, and Mr. Waller of Beaconsfield, were some of the first people of rank that promoted the elegant science of ornamenting without despising the superintendence of the kitchen quarters and fruit walls.

1 "In monasteries the lamp of knowledge continued to burn, however dimly. In them men of business were formed for the state: the art of writing was cultivated by the monks; they were the only proficient in mechanics, gardening, and architecture."

See Dalrymple’s Annals of Scotland.

A remark
A remark made by the excellent Mr. Ray in his Tour of Europe at once surprises us, and corroborates what has been advanced above; for we find him observing, so late as his days, that "the "Italians use several herbs for fallets, which are not yet or have not been but lately used in England, viz. felleri (celery) which is nothing else but the sweet smallage; the young shoots whereof, with a little of the head of the root cut off, they eat raw with oil and pepper." and farther he adds "curled endive blanched is much used beyond seas; and, for a raw fallet, seemed to excel lettuce itself." Now this journey was undertaken no longer ago than in the year 1663.

I am, &c.

LETTER XXXVIII.

TO THE SAME.

"Fortè puer, comitum sedactus ab agmine fido,
"Dixerat, ecquis adeò? et, adeò, responderat echo.
"Hic flupet; utque a ciem partes diviSt in omnes;
"Voce, veni, clamat magnà. Vocat illa vocantem."

DEAR SIR,

Selborne, Feb. 12, 1778.

In a district so diversified as this, so full of hollow vales and hanging woods, it is no wonder that echoes should abound. Many we have discovered that return the cry of a pack of dogs, the notes of a hunting-horn, a tunable ring of bells, or the melody of birds, very agreeably: but we were still at a loss for a polysyllabical, articulate
articulate echo, till a young gentleman, who had parted from his company in a summer evening walk, and was calling after them, stumbled upon a very curious one in a spot where it might least be expected. At first he was much surprised, and could not be persuaded but that he was mocked by some boy; but, repeating his trials in several languages, and finding his respondent to be a very adroit polyglot, he then discerned the deception.

This echo in an evening, before rural noises cease, would repeat ten syllables most articulately and distinctly, especially if quick dactyls were chosen. The last syllables of

"Tityre, tu patulae recubans - -" 

were as audibly and intelligibly returned as the first: and there is no doubt, could trial have been made, but that at midnight, when the air is very elastic, and a dead stillness prevails, one or two syllables more might have been obtained; but the distance rendered so late an experiment very inconvenient.

Quick dactyls, we observed, succeeded best; for when we came to try it's powers in slow, heavy, embarrassed spondees of the same number of syllables,

"Monstrum horrendum, informe, ingens - -" 

we could perceive a return but of four or five.

All echoes have some one place to which they are returned stronger and more distinct than to any other; and that is always the place that lies at right angles with the object of repercussion, and is not too near, nor too far off. Buildings, or naked rocks, re-echo much more articulately than hanging wood or vales; because in the latter the voice is as it were entangled, and embarrassed in the covert, and weakened in the rebound.
The true object of this echo, as we found by various experiments, is the stone-built, tiled hop-kiln in Gally-lane, which measures in front 40 feet, and from the ground to the eaves 12 feet. The true centrum phonicum, or just distance, is one particular spot in the King's-field, in the path to Nore-hill, on the very brink of the steep balk above the hollow cart way. In this case there is no choice of distance; but the path, by mere contingency, happens to be the lucky, the identical spot, because the ground rises or falls so immediately, if the speaker either retires or advances, that his mouth would at once be above or below the object.

We measured this polysyllabical echo with great exactness, and found the distance to fall very short of Dr. Plot's rule for distinct articulation: for the Doctor, in his history of Oxfordshire, allows 120 feet for the return of each syllable distinctly: hence this echo, which gives ten distinct syllables, ought to measure 400 yards, or 120 feet to each syllable; whereas our distance is only 258 yards, or near 75 feet, to each syllable. Thus our measure falls short of the Doctor's, as five to eight: but then it must be acknowledged that this candid philosopher was convinced afterwards, that some latitude must be admitted of in the distance of echoes according to time and place.

When experiments of this sort are making, it should always be remembered that weather and the time of day have a vast influence on an echo; for a dull, heavy, moist air deadens and clogs the sound; and hot sunshine renders the air thin and weak, and deprives it of all it's springiness; and a ruffling wind quite defeats the whole. In a still, clear, dewy evening the air is most elastic; and perhaps the later the hour the more so.

Echo
OF SELBORNE.

Echo has always been so amusing to the imagination, that the poets have personified her; and in their hands she has been the occasion of many a beautiful fiction. Nor need the gravest man be ashamed to appear taken with such a phenomenon, since it may become the subject of philosophical or mathematical inquiries.

One should have imagined that echoes, if not entertaining, must at least have been harmless and inoffensive; yet Virgil advances a strange notion, that they are injurious to bees. After enumerating some probable and reasonable annoyances, such as prudent owners would wish far removed from their bee-gardens, he adds

"— — — — aut ubi concava pulü
"Saxa sonant, vocifque offensa resultat imago."

This wild and fanciful assertion will hardly be admitted by the philosophers of these days; especially as they all now seem agreed that insects are not furnished with any organs of hearing at all. But if it should be urged, that though they cannot hear yet perhaps they may feel the repercussions of sounds, I grant it is possible they may. Yet that these impressions are distasteful or hurtful, I deny, because bees, in good summers, thrive well in my outlet, where the echoes are very strong: for this village is another Anathoth, a place of respondés or echoes. Besides, it does not appear from experiment that bees are in any way capable of being affected by sounds: for I have often tried my own with a large speaking-trumpet held close to their hives, and with such an exertion of voice as would have haled a ship at the distance of a mile, and still these insects pursued their various employments undisturbed, and without shewing the least sensibility or resentment.
Some time since it's discovery this echo is become totally silent, though the object, or hop-kiln, remains: nor is there any mystery in this defect; for the field between is planted as an hop-garden, and the voice of the speaker is totally absorbed and lost among the poles and entangled foliage of the hops. And when the poles are removed in autumn the disappointment is the same; because a tall quick-set hedge, nurtured up for the purpose of shelter to the hop ground, entirely interrupts the impulse and repercussion of the voice: so that till those obstructions are removed no more of it's garrulity can be expected.

Should any gentleman of fortune think an echo in his park or outlet a pleasing incident, he might build one at little or no expense. For whenever he had occasion for a new barn, stable, dog-kennel, or the like structure, it would be only needful to erect this building on the gentle declivity of an hill, with a like rising opposite to it, at a few hundred yards distance; and perhaps success might be the easier ensured could some canal, lake, or stream, intervene. From a seat at the centrum phonicum he and his friends might amuse themselves sometimes of an evening with the prattle of this loquacious nymph; of whose complacency and decent reserve more may be said than can with truth of every individual of her sex; since she is — — — — — qui nec reticere loquendi,

"Nec prior ipsa loqui didicit resonabilis echo."

I am, &c.

P. S.
P. S. The classic reader will, I trust, pardon the following lovely quotation, so finely describing echoes, and so poetically accounting for their causes from popular superstition:

"Quae bene quom videas, rationem reddere possis
"Tute tibi atque aliis, quo pacto per loca sola
"Saxa pareis formas verborum ex ordine reddant,
"Palanteis comites quom monteis inter opacos
"Querimus, et magnæ dispersos voce ciemus.
"Sex etiam, aut septem loca vidi reddere voces
"Unam quom jaceres: ita colles collibus ipsis
"Verba repulfantes iterabant dicta referre.
"Hæc loca capripedes Satyros, Nymphasque tenere
"Finitimi surgunt, et Faunos esse loquentur;
"Quorum nostitago strepitu, ludique jocanti
"Adfirmant volgo taciturna silentia rumpi,
"Chordarumque sono fieri, dulcisque querelas,
"Tibia quas fundit digitis pulfata canentum:
"Et genus agricolum late scentere, quom Pan
"Pinca femiferi capitis velamina quaflans,
"Unco sepe labro calamos percurret hianteis,
"Fistula silvestrem ne celfet fundere musam."

Lucretius, Lib. iv. 1. 576.
DEAR SIR,

AMONG the many singularities attending those amusing birds the swifts, I am now confirmed in the opinion that we have every year the same number of pairs invariably; at least the result of my inquiry has been exactly the same for a long time past. The swallows and martins are so numerous, and so widely distributed over the village, that it is hardly possible to recount them; while the swifts, though they do not all build in the church, yet so frequently haunt it, and play and rendezvous round it, that they are easily enumerated. The number that I constantly find are eight pairs; about half of which reside in the church, and the rest build in some of the lowest and meanest thatched cottages. Now as these eight pairs, allowance being made for accidents, breed yearly eight pairs more, what becomes annually of this increase; and what determines every spring which pairs shall visit us, and re-occupy their ancient haunts?

Ever since I have attended to the subject of ornithology, I have always supposed that that sudden reverse of affection, that strange antistopny, which immediately succeeds in the feathered kind to the most passionate fondness, is the occasion of an equal dispersion of birds over the face of the earth. Without this provision one favourite district would be crowded with inhabitants, while others would
OF SELBORNE.

would be destitute and forsaken. But the parent birds seem to maintain a jealous superiority, and to oblige the young to seek for new abodes: and the rivalry of the males, in many kinds, prevents their crowding the one on the other. Whether the swallows and house-martins return in the same exact number annually is not easy to say, for reasons given above: but it is apparent, as I have remarked before in my Monographies, that the numbers returning bear no manner of proportion to the numbers retiring.

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LETTER XL.

TO THE SAME.

DEAR SIR,

SELBORNE, June 2, 1773.

The standing objection to botany has always been, that it is a pursuit that amuses the fancy and exercises the memory, without improving the mind or advancing any real knowledge: and, where the science is carried no farther than a mere systematic classification, the charge is but too true. But the botanist that is desirous of wiping off this aspersion should be by no means content with a list of names; he should study plants philosophically, should investigate the laws of vegetation, should examine the powers and virtues of efficacious herbs, should promote their cultivation;
Natural history
cultivation; and graft the gardener, the planter, and the husband-
man, on the phytologist. Not that system is by any means to be
thrown aside; without system the field of Nature would be a
pathless wilderness; but system should be subservient to, not the
main object of, pursuit.

Vegetation is highly worthy of our attention; and in itself is of
the utmost consequence to mankind, and productive of many of
the greatest comforts and elegancies of life. To plants we owe
timber, bread, beer, honey, wine, oil, linen, cotton, &c. what
not only strengthens our hearts, and exhilarates our spirits, but
what secures us from inclemencies of weather and adorns our per-
sons. Man, in his true state of nature, seems to be subsisted by
spontaneous vegetation: in middle climes, where grasses prevail,
he mixes some animal food with the produce of the field and gar-
den: and it is towards the polar extremes only that, like his kin-
dred bears and wolves, he gorges himself with flesh alone, and is
driven, to what hunger has never been known to compel the very
beasts, to prey on his own species.\

The productions of vegetation have had a vast influence on the
commerce of nations, and have been the great promoters of navi-
gation, as may be seen in the articles of sugar, tea, tobacco, opium,
ginseng, betel, paper, &c. As every climate has its peculiar pro-
duce, our natural wants bring on a mutual intercourse; so that
by means of trade each distant part is supplied with the growth of
every latitude. But, without the knowledge of plants and their
culture, we must have been content with our hips and haws, with-
out enjoying the delicate fruits of India and the salutiferous drugs
of Peru.

See the late Voyages to the south-seas.
OF SELBORNE.

Instead of examining the minute distinctions of every various species of each obscure genus, the botanist should endeavour to make himself acquainted with those that are useful. You shall see a man readily ascertain every herb of the field, yet hardly know wheat from barley, or at least one sort of wheat or barley from another.

But of all sorts of vegetation the grasses seem to be most neglected; neither the farmer nor the grazier seem to distinguish the annual from the perennial, the hardy from the tender, nor the succulent and nutritive from the dry and juiceless.

The study of grasses would be of great consequence to a northerly, and grazing kingdom. The botanist that could improve the sward of the district where he lived would be an useful member of society: to raise a thick turf on a naked soil would be worth volumes of systematic knowledge; and he would be the best commonwealth's man that could occasion the growth of "two blades of grass where one alone was seen before."

I am, &c.
DEAR SIR,

In a district so diversified with such a variety of hill and dale, aspects, and soils, it is no wonder that great choice of plants should be found. Chalks, clays, sands, sheep-walks and downs, bogs, heaths, woodlands, and champaign fields, cannot but furnish an ample Flora. The deep rocky lanes abound with silices, and the pastures and moist woods with fungi. If in any branch of botany we may seem to be wanting, it must be in the large aquatic plants, which are not to be expected on a spot far removed from rivers, and lying up amidst the hill country at the spring heads. To enumerate all the plants that have been discovered within our limits would be a needless work; but a short list of the more rare, and the spots where they are to be found, may be neither unacceptable nor unentertaining:

_Helleborus foetidus_, stinking hellebore, bear’s foot, or fetterworth, all over the High-wood and Coney-croft-hanger: this continues a great branching plant the winter through, blossoming about January, and is very ornamental in shady walks and shrubberies. The good women give the leaves powdered to children troubled with worms; but it is a violent remedy, and ought to be administered with caution.
Helleborus viridis, green hellebore,—in the deep stony lane on the left hand just before the turning to Norton-farm, and at the top of Middle Dorton under the hedge: this plant dies down to the ground early in autumn, and springs again about February, flowering almost as soon as it appears above ground.

Vaccinium oxyccocos, creeping bilberries, or cranberries,—in the bogs of Bin’s-pond;

Vaccinium myrtillus, whortle, or bleaberry,—on the dry hillocks of Woolmer-forest;

Drosera rotundifolia, round-leaved sundew. } In the bogs

———longifolia, long-leaved ditto. } of Bin’s-pond.

Comarum palustre, purple comarum, or marsh cinquefoil,—in the bogs of Bin’s-pond;

Hypericum androsaemum, Tutfan, St. John’s Wort,—in the stony, hollow lanes;

Vinca minor, less periwinkle,—in Selborne-hanger and Scrub-wood;

Monotropa hypopithys, yellow monotropa, or birds’ nest,—in Selborne-hanger under the shady beeches, to whose roots it seems to be parasitical—at the north-west end of the Hanger;

Chlora perfoliata, Blackstonia perfoliata, Hudsoni, perfoliated yellow-wort,—on the banks in the King’s-field;

Paris quadrifolia, herb Paris, true-love, or one-berry,—in the Church-litten-coppice;

Chrysosplenium oppositifolium, opposite golden saxifrage,—in the dark and rocky hollow lanes;

Gentiana amarella, autumnal gentian, or fellwort,—on the Zig-zag and Hanger;
Lathyrus squamaria, tooth-wort,—in the Church-litten-coppice under some hazels near the foot-bridge, in Trimming's garden hedge, and on the dry wall opposite Grange-yard;

Dipsacus pilosus, small teasel,—in the Short and Long Lith.

Lathyrus sylvestris, narrow-leaved, or wild lathyrus,—in the bushes at the foot of the Short Lith, near the path;

Ophrys spiralis, ladies' traces,—in the Long Lith, and towards the south-corner of the common;

Ophrys nidus avis, birds' nest ophrys,—in the Long Lith under the shady beeches among the dead leaves; in Great Dorton among the bushes, and on the Hanger plentifully;

Serapias latifolia, helleborine,—in the High-wood under the shady beeches;

Daphne laureola, spurge laurel,—in Selborne-Hanger and the High-wood;

Daphne mezereum, the mezereon,—in Selborne-Hanger among the shrubs at the south-east end above the cottages.

Lycoperdon tuber, truffles,—in the Hanger and High-wood.

Sambucus ebulus, dwarf elder, walwort, or danewort,—among the rubbish and ruined foundations of the Priory.

LETTER
OF SELBORNE.

LETTER XLII.

TO THE SAME.

"Omnibus animalibus reliquis certus et uniusmodi, et in suo cuique genere inceius: est aves folae vario meatu feruntur, et in terrâ, et in äere."


DEAR SIR,

Selborne, Aug. 7, 1778.

A good ornithologist should be able to distinguish birds by their air as well as by their colours and shape; on the ground as well as on the wing, and in the bush as well as in the hand. For, though it must not be said that every species of birds has a manner peculiar to itself, yet there is somewhat in most genera at least, that at first flight discriminates them, and enables a judicious observer to pronounce upon them with some certainty. Put a bird in motion

"— Et verâ inceâ patuit — — —" 

Thus kites and buzzards sail round in circles with wings expanded and motionless; and it is from their gliding manner that the former are still called in the north of England gleds, from the Saxon verb glidan, to glide. The kestrel, or wind-hover, has a peculiar mode of hanging in the air in one place, his wings all the while being briskly agitated. Hen-harriers fly low over heaths or fields of corn, and beat the ground regularly like a pointer or setting-dog. Owls move in a buoyant manner, as if lighter than the air; they seem to want ballast. There is a peculiarity belonging to ravens that must draw the attention even of the most incurious—they spend all their
their leisure time in striking and cuffing each other on the wing in a kind of playful skirmish; and, when they move from one place to another, frequently turn on their backs with a loud croak, and seem to be falling to the ground. When this odd gesture betides them, they are scratching themselves with one foot, and thus lose the center of gravity. Rooks sometimes dive and tumble in a frolicksome manner; crows and daws swagger in their walk; wood-peckers fly volitato undofo, opening and closing their wings at every stroke, and so are always rising or falling in curves. All of this genus use their tails, which incline downward, as a support while they run up trees. Parrots, like all other hooked-clawed birds, walk awkwardly, and make use of their bill as a third foot, climbing and descending with ridiculous caution. All the gallinæ parade and walk gracefully, and run nimbly; but fly with difficulty, with an impetuous whirring, and in a straight line. Magpies and jays flutter with powerless wings, and make no dispatch; herons seem incumbered with too much weight for their light bodies; but these vast hollow wings are necessary in carrying burdens, such as large fishes, and the like; pigeons, and particularly the sort called finiters, have a way of clashing their wings the one against the other over their backs with a loud snap; another variety called tumblers turn themselves over in the air. Some birds have movements peculiar to the season of love: thus ring-doves, though strong and rapid at other times, yet in the spring hang about on the wing in a toying and playful manner; thus the cock-falpe, while breeding, forgetting his former flight, fans the air like the wind-hover; and the green-finch in particular exhibits such languishing and faultering gestures as to appear like a wounded and dying bird; the king-fisher darts along like an arrow; fern-owls, or goat-fuckers, glance in the dusk over the tops of trees like a meteor; starlings as
as it were swim along, while *mistle-thrushes* use a wild and desultory flight; *swallows* sweep over the surface of the ground and water, and distinguish themselves by rapid turns and quick evolutions; *swifts* dash round in circles; and the *bank-martin* moves with frequent vacillations like a butterfly. Most of the small birds fly by jerks, rising and falling as they advance. Most small birds hop; but *wagtails* and *larks* walk, moving their legs alternately. *Skylarks* rise and fall perpendicularly as they sing; *woodlarks* hang poised in the air; and *titlarks* rise and fall in large curves, singing in their descent. The *white-throat* uses odd jerks and gesticulations over the tops of hedges and bushes. All the *duck-kind* waddle; *divers* and *auks* walk as if fettered, and stand erect on their tails: these are the *compedes* of Linnaeus. *Geese* and *cranes*, and most wild-fowls, move in figured flights, often changing their position. The secondary *remiges* of *Tringa*, *wild-ducks*, and some others, are very long, and give their wings, when in motion, an hooked appearance. *Dabchicks*, *moor-hens*, and *coots*, fly erect, with their legs hanging down, and hardly make any dispatch; the reason is plain, their wings are placed too forward out of the true center of gravity; as the legs of *auks* and *divers* are situated too backward.
From the motion of birds, the transition is natural enough to their notes and language, of which I shall say something. Not that I would pretend to understand their language like the vizier; who, by the recital of a conversation which passed between two owls, reclaimed a sultan, before delighting in conquest and devastation; but I would be thought only to mean that many of the winded tribes have various sounds and voices adapted to express their various passions, wants, and feelings; such as anger, fear, love, hatred, hunger, and the like. All species are not equally eloquent; some are copious and fluent as it were in their utterance, while others are confined to a few important sounds: no bird, like the fish kind, is quite mute, though some are rather silent. The language of birds is very ancient, and, like other ancient modes of speech, very elliptical; little is said, but much is meant and understood.

The notes of the eagle-kind are shrill and piercing; and about the season of nidification much diversified, as I have been often assured by a curious observer of Nature, who long resided at Gibraltar, where eagles abound. The notes of our hawks much resemble those of the king of birds. Owls have very expressive notes; they hoot in a fine vocal sound, much resembling the vox

humana, and reducible by a pitch-pipe to a musical key. This note seems to express complacency and rivalry among the males: they use also a quick call and an horrible scream; and can snore and hiss when they mean to menace. Ravens, besides their loud croak, can exert a deep and solemn note that makes the woods to echo; the amorous sound of a crow is strange and ridiculous; rooks, in the breeding season, attempt sometimes in the gaiety of their hearts to sing, but with no great success; the parrot-kind have many modulations of voice, as appears by their aptitude to learn human sounds; doves coo in an amorous and mournful manner, and are emblems of despairing lovers; the woodpecker sets up a sort of loud and hearty laugh; the fern-owl, or goat-sucker, from the dusk till day-break, serenades his mate with the clattering of castanets. All the tuneful passerés express their complacency by sweet modulations, and a variety of melody. The swallow, as has been observed in a former letter, by a shrill alarm bespeaks the attention of the other birundines, and bids them be aware that the hawk is at hand. Aquatic and gregarious birds, especially the nocturnal, that shift their quarters in the dark, are very noisy and loquacious; as cranes, wild-geese, wild-ducks, and the like: their perpetual clamour prevents them from dispersing and losing their companions.

In so extensive a subject, sketches and outlines are as much as can be expected; for it would be endless to instance in all the infinite variety of the feathered nation. We shall therefore confine the remainder of this letter to the few domestic fowls of our yards, which are most known, and therefore best understood. And first the peacock, with his gorgeous train, demands our attention; but, like most of the gaudy birds, his notes are grating and shocking to the ear: the yelling of cats, and the braying of an ass, are not

I i more
more disgusting. The voice of the goose is trumpet-like, and clanking; and once saved the Capitol at Rome, as grave historians assert: the hiss also of the gander is formidable and full of menace, and "protective of his young." Among ducks the sexual distinction of voice is remarkable; for, while the quack of the female is loud and sonorous, the voice of the drake is inward and harsh, and feeble, and scarce discernible. The cock turkey struts and gobbles to his mistress in a most uncouth manner; he hath also a pert and petulant note when he attacks his adversary. When a hen turkey leads forth her young brood she keeps a watchful eye; and if a bird of prey appear, though ever so high in the air, the careful mother announces the enemy with a little inward moan, and watches him with a steady and attentive look; but, if he approach, her note becomes earnest and alarming, and her outcries are redoubled.

No inhabitants of a yard seem possessed of such a variety of expression and so copious a language as common poultry. Take a chicken of four or five days old, and hold it up to a window where there are flies, and it will immediately seize its prey, with little twitterings of complacency; but if you tender it a wasp or a bee, at once its note becomes harsh, and expressive of disapprobation and a sense of danger. When a pullet is ready to lay she intimates the event by a joyous and easy soft note. Of all the occurrences of their life that of laying seems to be the most important; for no sooner has a hen disburdened herself, than she rushes forth with a clamorous kind of joy, which the cock and the rest of his mistresses immediately adopt. The tumult is not confined to the family concerned, but catches from yard to yard, and spreads to every homestead within hearing, till at last the whole village is in an uproar. As soon as a hen becomes a mother her
her new relation demands a new language; she then runs clocking and screaming about, and seems agitated as if possessed. The father of the flock has also a considerable vocabulary; if he finds food, he calls a favourite concubine to partake; and if a bird of prey paffles over, with a warning voice he bids his family beware. The gallant chanticleer has, at command, his amorous phrases and his terms of defiance. But the sound by which he is best known is his crowing: by this he has been distinguished in all ages as the countryman's clock or larum, as the watchman that proclaims the divisions of the night. Thus the poet elegantly styles him:

"— the crested cock, whose clarion sounds
"The silent hours."

A neighbouring gentleman one summer had lost most of his chickens by a sparrow-hawk, that came gliding down between a faggot pile and the end of his house to the place where the coops stood. The owner, inwardly vexed to see his flock thus diminishing, hung a setting net adroitly between the pile and the house, into which the caitif dashed, and was entangled. Resentment suggested the law of retaliation; he therefore clipped the hawk's wings, cut off his talons, and, fixing a cork on his bill, threw him down among the brood-hens. Imagination cannot paint the scene that ensued; the expressions that fear, rage, and revenge, inspired, were new, or at least such as had been unnoticed before: the exasperated matrons upbraided, they execrated, they insulted, they triumphed. In a word, they never desisted from buffetting their adversary till they had torn him in an hundred pieces.
Gentlemen who have outlets might contrive to make ornament subservient to utility: a pleasing eye-trap might also contribute to promote science: an obelisk in a garden or park might be both an embellishment and an heliotrope.

Any person that is curious, and enjoys the advantage of a good horizon, might, with little trouble, make two heliotropes; the one for the winter, the other for the summer solstice: and these two erections might be constructed with very little expense; for two pieces of timber frame-work, about ten or twelve feet high, and four feet broad at the base, and close lined with plank, would answer the purpose.

The erection for the former should, if possible, be placed within sight of some window in the common sitting parlour; because men, at that dead season of the year, are usually within doors at the close of the day; while that for the latter might be fixed for any given spot in the garden or outlet: whence the owner might contemplate, in a fine summer’s evening, the utmost extent that the sun makes to the northward at the season of the longest days.
OF SELBORNE.

OF SELBORNE.

245

days. Now nothing would be necessary but to place these two objects with so much exactness, that the westerly limb of the sun, at setting, might but just clear the winter heliotrope to the west of it on the shortest day; and that the whole disc of the sun, at the longest day, might exactly at setting also clear the summer heliotrope to the north of it.

By this simple expedient it would soon appear that there is no such thing, strictly speaking, as a solstice; for, from the shortest day, the owner would, every clear evening, see the disc advancing, at it’s setting, to the westward of the object; and, from the longest day, observe the sun retiring backwards every evening at it’s setting, towards the object westward, till, in a few nights, it would set quite behind it, and so by degrees to the west of it: for when the sun comes near the summer solstice, the whole disc of it would at first set behind the object; after a time the northern limb would first appear, and so every night gradually more, till at length the whole diameter would set northward of it for about three nights; but on the middle night of the three, sensibly more remote than the former or following. When beginning it’s recess from the summer tropic, it would continue more and more to be hidden every night, till at length it would descend quite behind the object again; and so nightly more and more to the westward.
When I was a boy I used to read, with astonishment and implicit assent, accounts in Baker's Chronicle of walking hills and travelling mountains. John Philips, in his Cider, alludes to the credit that was given to such stories with a delicate but quaint vein of humour peculiar to the author of the Splendid Shilling.

"I nor advise, nor reprehend the choice
"Of Marden Hill; the apple no where finds
"A kinder mould; yet 'tis unsafe to trust
"Deceitful ground: who knows but that once more
"This mount may journey, and his present site
"Forfaken, to thy neighbour's bounds transfer
"Thy goodly plants, affording matter strange
"For law debates!"

But, when I came to consider better, I began to suspect that though our hills may never have journeyed far, yet that the ends of many of them have slipped and fallen away at distant periods, leaving the cliffs bare and abrupt. This seems to have been the case with Nore and Whetham Hills; and especially with the ridge between Harteley Park and Word-le-ham, where the ground has slid into vast swellings and furrows; and lies still in such romantic confusion
confusion as cannot be accounted for from any other cause. A strange event, that happened not long since, justifies our suspicions; which, though it befell not within the limits of this parish, yet as it was within the hundred of Selborne, and as the circumstances were singular, may fairly claim a place in a work of this nature.

The months of January and February, in the year 1774, were remarkable for great melting snows and vast gluts of rain; so that by the end of the latter month the land-springs, or lavants, began to prevail, and to be near as high as in the memorable winter of 1764. The beginning of March also went on in the same tenor; when, in the night between the 8th and 9th of that month, a considerable part of the great woody hanger at Hawkley was torn from it's place, and fell down, leaving a high free-stone cliff naked and bare, and resembling the steep side of a chalk-pit. It appears that this huge fragment, being perhaps fapped and undermined by waters, foundered, and was ingulfed, going down in a perpendicular direction; for a gate which stood in the field, on the top of the hill, after sinking with it's posts for thirty or forty feet, remained in so true and upright a position as to open and shut with great exactness, just as in it's first situation. Several oaks also are still standing, and in a state of vegetation, after taking the same desperate leap. That great part of this prodigious mass was absorbed in some gulf below, is plain also from the inclining ground at the bottom of the hill, which is free and unincumbered; but would have been buried in heaps of rubbish, had the fragment parted and fallen forward. About an hundred yards from the foot of this hanging coppice stood a cottage by the side of a lane; and two hundred yards lower, on the other side of the lane, was a farm-house, in which lived a labourer and his
his family; and, just by, a stout new barn. The cottage was inhabited by an old woman and her son, and his wife. These people in the evening, which was very dark and tempestuous, observed that the brick floors of their kitchens began to heave and part; and that the walls seemed to open, and the roofs to crack: but they all agree that no tremor of the ground, indicating an earthquake, was ever felt; only that the wind continued to make a most tremendous roaring in the woods and hangers. The miserable inhabitants, not daring to go to bed, remained in the utmost solicitude and confusion, expecting every moment to be buried under the ruins of their shattered edifices. When day-light came they were at leisure to contemplate the devastations of the night: they then found that a deep rift, or chasm, had opened under their houses, and torn them, as it were, in two; and that one end of the barn had suffered in a similar manner; that a pond near the cottage had undergone a strange reverse, becoming deep at the shallow end, and so vice versa; that many large oaks were removed out of their perpendicular, some thrown down, and some fallen into the heads of neighbouring trees; and that a gate was thrust forward, with its hedge, full six feet, so as to require a new track to be made to it. From the foot of the cliff the general course of the ground, which is pasture, inclines in a moderate descent for half a mile, and is interspersed with some hillocks, which were rifted, in every direction, as well towards the great woody hanger, as from it. In the first pasture the deep clefts began; and running across the lane, and under the buildings, made such vast shelves that the road was impassable for some time; and so over to an arable field on the other side, which was strangely torn and disordered. The second pasture field, being more soft and springy, was protruded forward without many fissures in the turf, which was
was raised in long ridges resembling graves, lying at right angles to the motion. At the bottom of this enclosure the soil and turf rose many feet against the bodies of some oaks that obstructed their farther course and terminated this awful commotion.

The perpendicular height of the precipice, in general, is twenty-three yards; the length of the lapse, or slip, as seen from the fields below, one hundred and eighty-one; and a partial fall, concealed in the coppice, extends seventy yards more: so that the total length of this fragment that fell was two hundred and fifty-one yards. About fifty acres of land suffered from this violent convulsion; two houses were entirely destroyed; one end of a new barn was left in ruins, the walls being cracked through the very stones that composed them; a hanging coppice was changed to a naked rock; and some grass grounds and an arable field so broken and rifted by the chasms as to be rendered, for a time, neither fit for the plough or safe for pasturage, till considerable labour and expense had been bestowed in levelling the surface and filling in the gaping fissures.
NATURAL HISTORY

LETTER XLVI.

TO THE SAME.

Selborne,

"— — resonant arbusa — — —"

There is a steep abrupt pasture field interspersed with furze close to the back of this village, well known by the name of the Short Lithe, consisting of a rocky dry soil, and inclining to the afternoon sun. This spot abounds with the *gryllus campestris*, or field-cricket; which, though frequent in these parts, is by no means a common insect in many other counties.

As their cheerful summer cry cannot but draw the attention of a naturalist, I have often gone down to examine the œconomy of these *grylli*, and study their mode of life: but they are so fly and cautious that it is no easy matter to get a sight of them; for, feeling a person's footsteps as he advances, they stop short in the midst of their song, and retire backward nimbly into their burrows, where they lurk till all suspicion of danger is over.

At first we attempted to dig them out with a spade, but without any great success; for either we could not get to the bottom of the hole, which often terminated under a great stone; or else, in breaking up the ground, we inadvertently squeezed the poor insect to death. Out of one so bruised we took a multitude of eggs, which
OF SELBORNE.

which were long and narrow, of a yellow colour, and covered with a very tough skin. By this accident we learned to distinguish the male from the female; the former of which is shining black, with a golden stripe across his shoulders; the latter is more dusky, more capacious about the abdomen, and carries a long sword-shaped weapon at her tail, which probably is the instrument with which she deposits her eggs in crannies and safe receptacles.

Where violent methods will not avail, more gentle means will often succeed; and so it proved in the present case; for, though a spade be too boisterous and rough an implement, a pliant flalk of grass, gently insinuated into the caverns, will probe their windings to the bottom, and quickly bring out the inhabitant; and thus the humane inquirer may gratify his curiosity without injuring the object of it. It is remarkable that, though these insects are furnished with long legs behind, and brawny thighs for leaping, like grasshoppers; yet when driven from their holes they shew no activity, but crawl along in a shiftless manner, so as easily to be taken: and again, though provided with a curious apparatus of wings, yet they never exert them when there seems to be the greatest occasion. The males only make that thrilling noise perhaps out of rivalry and emulation, as is the case with many animals which exert some sprightly note during their breeding time: it is raised by a brisk friction of one wing against the other. They are solitary beings, living singly male or female, each as it may happen; but there must be a time when the sexes have some intercourse, and then the wings may be useful perhaps during the hours of night. When the males meet they will fight fiercely, as I found by some which I put into the crevices of a dry stone wall, where I should have been glad to have made them settle. For though they seemed distressed by being taken out of their knowledge,
ledge, yet the first that got possession of the chinks would seize on any that were obtruded upon them with a vast row of serrated fangs. With their strong jaws, toothed like the shears of a lobster's claws, they perforate and round their curious regular cells, having no fore-claws to dig, like the mole-cricket. When taken in hand I could not but wonder that they never offered to defend themselves, though armed with such formidable weapons. Of such herbs as grow before the mouths of their burrows they eat indiscriminately; and on a little platform, which they make just by, they drop their dung; and never, in the day time, seem to stir more than two or three inches from home. Sitting in the entrance of their caverns they chirp all night as well as day from the middle of the month of May to the middle of July; and in hot weather, when they are most vigorous, they make the hills echo; and, in the stiller hours of darkness, may be heard to a considerable distance. In the beginning of the season their notes are more faint and inward; but become louder as the summer advances, and so die away again by degrees.

Sounds do not always give us pleasure according to their sweetness and melody; nor do harsh sounds always displease. We are more apt to be captivated or disgusted with the associations which they promote, than with the notes themselves. Thus the thrilling of the field-cricket, though sharp and stridulous, yet marvellously delights some hearers, filling their minds with a train of summer ideas of every thing that is rural, verdurous, and joyous.

About the tenth of March the crickets appear at the mouths of their cells, which they then open and bore, and shape very elegantly. All that ever I have seen at that season were in their pupa state, and had only the rudiments of wings, lying under a skin or coat,
coat, which must be cast before the insect can arrive at it's perfect state; from whence I should suppose that the old ones of last year do not always survive the winter. In August their holes begin to be obliterated, and the insects are seen no more till spring.

Not many summers ago I endeavoured to transplant a colony to the terrace in my garden, by boring deep holes in the floping turf. The new inhabitants stayed some time, and fed and sung; but wandered away by degrees, and were heard at a farther distance every morning; so that it appears that on this emergency they made use of their wings in attempting to return to the spot from which they were taken.

One of these crickets, when confined in a paper cage and set in the sun, and supplied with plants moistened with water, will feed and thrive, and become so merry and loud as to be irksome in the same room where a person is sitting: if the plants are not wetted it will die.

We have observed that they cast these skins in April, which are then seen lying at the mouths of their holes.
DEAR SIR,  

"Far from all resort of mirth
Save the cricket on the hearth."  

Selborne.

While many other insects must be sought after in fields and woods, and waters, the *gryllus domesticus*, or *house-cricket*, resides altogether within our dwellings, intruding itself upon our notice whether we will or no. This species delights in new-built houses, being, like the spider, pleased with the moisture of the walls; and besides, the softness of the mortar enables them to burrow and mine between the joints of the bricks or stones, and to open communications from one room to another. They are particularly fond of kitchens and bakers' ovens, on account of their perpetual warmth.

Tender insects that live abroad either enjoy only the short period of one summer, or else doze away the cold uncomfortable months in profound slumbers; but these, residing as it were in a torrid zone, are always alert and merry: a good Christmas fire is to them like the heats of the dog-days. Though they are frequently heard by day, yet is their natural time of motion only in the night. As soon as it grows dusk, the chirping increases, and they come running forth, and are from the size of a flea to that of their full stature. As one should suppose, from the burning
burning atmosphere which they inhabit, they are a thirsty race, and shew a great propensity for liquids, being found frequently drowned in pans of water, milk, broth, or the like. Whatever is moist they affect; and therefore often gnaw holes in wet woollen stockings and aprons that are hung to the fire: they are the housewife's barometer, foretelling her when it will rain; and are prognostic sometimes, she thinks, of ill or good luck; of the death of a near relation, or the approach of an absent lover. By being the constant companions of her solitary hours they naturally become the objects of her superition. These crickets are not only very thirsty, but very voracious; for they will eat the scumings of pots, and yeast, salt, and crumbs of bread; and any kitchen offal or sweepings. In the summer we have observed them to fly, when it became dusk, out of the windows, and over the neighbouring roofs. This feat of activity accounts for the sudden manner in which they often leave their haunts, as it does for the method by which they come to houses where they were not known before. It is remarkable, that many sorts of insects seem never to use their wings but when they have a mind to shift their quarters and settle new colonies. When in the air they move "volant undolo," in waves or curves, like wood-peckers, opening and shutting their wings at every stroke, and so are always rising or sinking.

When they increase to a great degree, as they did once in the house where I am now writing, they become noisome pests, flying into the candles, and dashing into people's faces; but may be blasted and destroyed by gunpowder discharged into their crevices and crannies. In families, at such times, they are, like Pharaoh's plague of frogs,—"in their bedchambers, and upon their beds, and in their ovens, and in their kneading-troughs."
NATURAL HISTORY

“troughs.” Their thrilling noise is occasioned by a brisk attrition of their wings. Cats catch hearth-crickets, and, playing with them as they do with mice, devour them. Crickets may be destroyed, like wasps, by phials half filled with beer, or any liquid, and set in their haunts; for, being always eager to drink, they will crowd in till the bottles are full.

LETTER XLVIII.

TO THE SAME.

SELBORNE.

How diversified are the modes of life not only of incongruous but even of congeneric animals; and yet their specific distinctions are not more various than their propensities. Thus, while the field-cricket delights in funny dry banks, and the house-cricket rejoices amidst the glowing heat of the kitchen hearth or oven, the gryllus gryllo talpa (the mole-cricket), haunts moist meadows, and frequents the sides of ponds and banks of streams, performing all it's functions in a swampy wet soil. With a pair of fore-feet, curiously adapted to the purpose, it burrows and works under ground like the mole, raising a ridge as it proceeds, but seldom throwing up hillocks.

Exod. viii. 3.
As mole-cricketS often infest gardens by the sides of canals, they are unwelcome guests to the gardener, raising up ridges in their subterraneous progress, and rendering the walks unsightly. If they take to the kitchen quarters, they occasion great damage among the plants and roots, by destroying whole beds of cabbages, young legumes, and flowers. When dug out they seem very slow and helpless, and make no use of their wings by day; but at night they come abroad, and make long excursions, as I have been convinced by finding stragglers, in a morning, in improbable places. In fine weather, about the middle of April, and just at the close of day, they begin to solace themselves with a low, dull, jarring note, continued for a long time without interruption, and not unlike the chattering of the fern-owl, or goat-fucker, but more inward.

About the beginning of May they lay their eggs, as I was once an eye-witness: for a gardener at an house, where I was on a visit, happening to be mowing, on the 6th of that month, by the side of a canal, his scythe struck too deep, pared off a large piece of turf, and laid open to view a curious scene of domestic economy:

"— — — ingentem lato dedit ore fenestram:
"Apparet domus intus, et atria longa patefunt:
"Apparent — — penetralia."

There were many caverns and winding passages leading to a kind of chamber, neatly smoothed and rounded, and about the size of a moderate snuff-box. Within this secret nursery were deposited near an hundred eggs of a dirty yellow colour, and enveloped in a tough skin, but too lately excluded to contain any rudiments of young, being full of a viscous substance. The eggs lay
lay but shallow, and within the influence of the sun, just under a little heap of fresh-mowed mould, like that which is raised by ants.

When mole-crickets fly they move "curfu undosfo," rising and falling in curves, like the other species mentioned before. In different parts of this kingdom people call them fen-crickets, churr-worms, and eve-churrs, all very apposite names.

Anatomists, who have examined the intestines of these insects, astonish me with their accounts; for they say that, from the structure, position, and number of their stomachs, or maws, there seems to be good reason to suppose that this and the two former species ruminate or chew the cud like many quadrupeds!

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LETTER XLIX.

TO THE SAME.

SELBORNE, May 7, 1779.

It is now more than forty years that I have paid some attention to the ornithology of this district, without being able to exhaust the subject: new occurrences still arise as long as any inquiries are kept alive.

In the last week of last month five of those most rare birds, too uncommon to have obtained an English name, but known to naturalists
ralifts by the terms of himantopus, or loripes, and charadrius himantopus, were shot upon the verge of Fringhaam-pond, a large lake belonging to the Bishop of Winchester, and lying between Weelmer-forest, and the town of Farnham, in the county of Surrey. The pond keeper says there were three brace in the flock; but that, after he had satisfied his curiosity, he suffered the sixth to remain unmolested. One of these specimens I procured, and found the length of the legs to be so extraordinary, that, at first sight, one might have supposed the shanks had been fastened on to impose on the credulity of the beholder: they were legs in caricatura; and had we seen such proportions on a Chinese or Japan screen we should have made large allowances for the fancy of the draughtsman. These birds are of the plover family, and might with propriety be called the flilt plovers. Briffon, under that idea, gives them the apposite name of Veckaffé. My specimen, when drawn and stuffed with pepper, weighed only four ounces and a quarter, though the naked part of the thigh measured three inches and an half, and the legs four inches and an half. Hence we may safely assert that these birds exhibit, weight for inches, incomparably the greatest length of legs of any known bird. The flamingo, for instance, is one of the most long legged birds, and yet it bears no manner of proportion to the himantopus; for a cock flamingo weighs, at an average, about four pounds avoirdupois; and his legs and thighs measure usually about twenty inches. But four pounds are fifteen times and a fraction more than four ounces, and one quarter; and if four ounces and a quarter have eight inches of legs, four pounds must have one hundred and twenty inches and a fraction of legs; viz. somewhat more than ten feet; such a monstrous proportion as the world never saw! If you should try the experiment in still larger birds the disparity would still increase. It must be matter of great curiosity
curiosity to see the *stilt plover* move; to observe how it can wield such a length of lever with such feeble muscles as the thighs seem to be furnished with. At best one should expect it to be but a bad walker: but what adds to the wonder is, that it has no back toe. Now without that steady prop to support it's steps it must be liable, in speculation, to perpetual vacillations, and seldom able to preserve the true center of gravity.

The old name of *himantopus* is taken from Pliny; and, by an awkward metaphor, implies that the legs are as slender and pliant as if cut out of a *thong* of leather. Neither Willughby nor Ray, in all their curious researches, either at home or abroad, ever saw this bird. Mr. Pennant never met with it in all Great-Britain, but observed it often in the cabinets of the curious at Paris. Hasselquistsays that it migrates to Egypt in the autumn: and a most accurate observer of Nature has assured me that he has found it on the banks of the streams in Andalusia.

Our writers record it to have been found only twice in Great-Britain. From all these relations it plainly appears that these long legged *plovers* are birds of South Europe, and rarely visit our island; and when they do are wanderers and stragglers, and impelled to make so distant and northern an excursion from motives or accidents for which we are not able to account. One thing may fairly be deduced, that these birds come over to us from the continent, since nobody can suppose that a species not noticed once in an age, and of such a remarkable make, can constantly breed unobserved in this kingdom.

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LETTER
OF SELBORNE.

LETTER L.

TO THE SAME.

DEAR SIR,

Selborne, April 21, 1780.

The old Sufex tortoise, that I have mentioned to you so often, is become my property. I dug it out of its winter dormitory in March last, when it was enough awakened to express its resentments by hissing; and, packing it in a box with earth, carried it eighty miles in post-chaises. The rattle and hurry of the journey so perfectly roused it that, when I turned it out on a border, it walked twice down to the bottom of my garden; however, in the evening, the weather being cold, it buried itself in the loose mould, and continues still concealed.

As it will be under my eye, I shall now have an opportunity of enlarging my observations on its mode of life, and propensities; and perceive already that, towards the time of coming forth, it opens a breathing place in the ground near its head, requiring, I conclude, a freer respiration as it becomes more alive. This creature not only goes under the earth from the middle of November to the middle of April, but sleeps great part of the summer; for it goes to bed in the longest days at four in the afternoon, and often does not stir in the morning till late. Besides, it retires to rest for every shower; and does not move at all in wet days.

When
When one reflects on the state of this strange being, it is a matter of wonder to find that Providence should bestow such a profusion of days, such a seeming waste of longevity, on a reptile that appears to relish it so little as to squander more than two thirds of its existence in a joyless stupor, and be lost to all sensation for months together in the profoundest of slumbers.

While I was writing this letter, a moist and warm afternoon, with the thermometer at 50, brought forth troops of shell-snails; and, at the same juncture, the tortoise heaved up the mould and put out its head; and the next morning came forth, as it were raised from the dead; and walked about till four in the afternoon. This was a curious coincidence! a very amusing occurrence! to see such a similarity of feelings between the two Πυαίακοι! for so the Greeks called both the shell-snail and the tortoise.

Summer birds are, this cold and backward spring, unusually late: I have seen but one swallow yet. This conformity with the weather convinces me more and more that they sleep in the winter.
I have now read your miscellanies through with much care and satisfaction; and am to return you my best thanks for the honourable mention made in them of me as a naturalist, which I wish I may deserve.

In some former letters I expressed my suspicions that many of the house-martins do not depart in the winter far from this village. I therefore determined to make some search about the south-east end of the hill, where I imagined they might slumber out the uncomfortable months of winter. But supposing that the examination would be made to the best advantage in the spring, and observing that no martins had appeared by the 11th of April last; on that day I employed some men to explore the shrubs and cavities of the suspected spot. The persons took pains, but without any success; however, a remarkable incident occurred in the midst of our pursuit—while the labourers were at work a house-martin, the first that had been seen this year, came down the village in the sight of several people, and went at once into a nest, where it stayed a short time, and then flew over the houses; for some days after no martins were observed, not till the 16th of April, and then only a pair. Martins in general were remarkably late this year.
I have just met with a circumstance respecting swifts, which furnishes an exception to the whole tenor of my observations ever since I have bestowed any attention on that species of hirundines. Our swifts, in general, withdrew this year about the first day of August, all save one pair, which in two or three days was reduced to a single bird. The perseverance of this individual made me suspect that the strongest of motives, that of an attachment to her young, could alone occasion so late a stay. I watched therefore till the twenty-fourth of August, and then discovered that, under the eaves of the church, she attended upon two young, which were fledged, and now put out their white chins from a crevice. These remained till the twenty-seventh, looking more alert every day, and seeming to long to be on the wing. After this day they were missing at once; nor could I ever observe them with their dam courting round the church in the act of learning to fly, as the first broods evidently do. On the thirty-first I caused the eaves to be searched, but we found in the nest only two callow, dead, stinking swifts, on which a second nest had been formed. This double nest was full of the black shining cases of the hippocastanum hirundinis.

The following remarks on this unusual incident are obvious. The first is, that though it may be disagreeable to swifts to remain beyond
OF SELBORNE.

beyond the beginning of August, yet that they can subsist longer is undeniable. The second is, that this uncommon event, as it was owing to the loss of the first brood, so it corroborates my former remark, that swifts breed regularly but once; since, was the contrary the case, the occurrence above could neither be new nor rare.

P. S. One swift was seen at Lyndon, in the county of Rutland, in 1782, so late as the third of September.

LETTER LIII.

TO THE SAME.

As I have sometimes known you make inquiries about several kinds of insects, I shall here send you an account of one fort which I little expected to have found in this kingdom. I had often observed that one particular part of a vine growing on the walls of my house was covered in the autumn with a black dust-like appearance, on which the flies fed eagerly; and that the shoots and leaves thus affected did not thrive; nor did the fruit ripen. To this substance I applied my glasses; but could not discover that it had any thing to do with animal life, as I at first expected: but, upon a closer examination behind the larger M m boughs,
boughs, we were surprised to find that they were coated over with bulky shells, from whose sides proceeded a cotton-like substance, surrounding a multitude of eggs. This curious and uncommon production put me upon recollecting what I have heard and read concerning the *coccus vitis viniferae* of Linnaeus, which, in the south of Europe, infests many vines, and is an horrid and loathsome pest. As soon as I had turned to the accounts given of this insect, I saw at once that it swarmed on my vine; and did not appear to have been at all checked by the preceding winter, which had been uncommonly severe.

Not being then at all aware that it had any thing to do with England, I was much inclined to think that it came from Gibraltar among the many boxes and packages of plants and birds which I had formerly received from thence; and especially as the vine infested grew immediately under my study-window, where I usually kept my specimens. True it is that I had received nothing from thence for some years: but as insects, we know, are conveyed from one country to another in a very unexpected manner, and have a wonderful power of maintaining their existence till they fall into a *nidus* proper for their support and increase, I cannot but suspect still that these *coci* came to me originally from Andalusia. Yet, all the while, candour obliges me to confess that Mr. Lightfoot has written me word that he once, and but once, saw these insects on a vine at Weymouth in Dorsetshire; which, it is here to be observed, is a sea-port town to which the *coccus* might be conveyed by shipping.

As many of my readers may possibly never have heard of this strange and unusual insect, I shall here transcribe a passage from a natural history of Gibraltar, written by the Reverend John White, late vicar of Blackburn in Lancashire, but not yet published:—

"In
OF SELBORNE.

In the year 1770 a vine, which grew on the east-side of my house, and which had produced the finest crops of grapes for years past, was suddenly overspread on all the woody branches with large lumps of a white fibrous substance resembling spiders webs, or rather raw cotton. It was of a very clammy quality, sticking fast to every thing that touched it, and capable of being spun into long threads. At first I suspected it to be the product of spiders, but could find none. Nothing was to be seen connected with it but many brown oval husky shells, which by no means looked like insects, but rather resembled bits of the dry bark of the vine. The tree had a plentiful crop of grapes yet, when this pest appeared upon it; but the fruit was manifestly injured by this foul incumbrance. It remained all the summer, still increasing, and loaded the woody and bearing branches to a vast degree. I often pulled off great quantities by handfuls; but it was so slimy and tenacious that it could by no means be cleared. The grapes never filled to their natural perfection, but turned watery and vapid. Upon perusing the works afterwards of M. de Reaumur, I found this matter perfectly described and accounted for. Those husky shells, which I had observed, were no other than the female coccus, from whose sides this cotton-like substance exudes, and serves as a covering and security for their eggs.

To this account I think proper to add, that, though the female cocci are stationary, and seldom remove from the place to which they flick, yet the male is a winged insect; and that the black dust which I saw was undoubtedly the excrement of the females, which is eaten by ants as well as flies. Though the utmost severity of our winter did not destroy these insects, yet the attention of the gardener in a summer or two has entirely relieved my vine from this filthy annoyance.
As we have remarked above that insects are often conveyed from one country to another in a very unaccountable manner, I shall here mention an emigration of small aphides, which was observed in the village of Selborne no longer ago than August the 1st, 1785.

At about three o'clock in the afternoon of that day, which was very hot, the people of this village were surprized by a shower of aphides, or smother-flies, which fell in these parts. Those that were walking in the street at that juncture found themselves covered with these insects, which settled also on the hedges and gardens, blackening all the vegetables where they alighted. My annuals were discoloured with them, and the stalks of a bed of onions were quite coated over for six days after. These armies were then, no doubt, in a state of emigration, and shifting their quarters; and might have come, as far as we know, from the great hop-plantations of Kent or Suffex, the wind being all that day in the easterly quarter. They were observed at the same time in great clouds about Farnham, and all along the vale from Farnham to Alton.

a For various methods by which several insects shift their quarters, see Derham’s Physico-Theology.
DEAR SIR,

WHEN I happen to visit a family where gold and silver fishes are kept in a glass bowl, I am always pleased with the occurrence, because it offers me an opportunity of observing the actions and propensities of those beings with whom we can be little acquainted in their natural state. Not long since I spent a fortnight at the house of a friend where there was such a vivary, to which I paid no small attention, taking every occasion to remark what passed within it's narrow limits. It was here that I first observed the manner in which fishes die. As soon as the creature sickens, the head sinks lower and lower, and it stands as it were on it's head; till, getting weaker, and losing all poise, the tail turns over, and at last it floats on the surface of the water with it's belly uppermost. The reason why fishes, when dead, swim in that manner is very obvious; because, when the body is no longer balanced by the fins of the belly, the broad muscular back preponderates by it's own gravity, and turns the belly uppermost, as lighter from it's being a cavity, and because it contains the swimming-bladders, which contribute to render it buoyant. Some that delight in gold and silver fishes have adopted a notion that they need no aliment. True it is that they will subsist for a long time without any apparent food but what they can collect from pure water frequently changed; yet they must draw some support from animacula, and other nourishment.
nourishment supplied by the water; because, though they seem
to eat nothing, yet the consequences of eating often drop from
them. That they are best pleased with such _jejune_ diet may easily
be confuted, since if you toss them crumbs they will feize them
with great readiness, not to say greediness: however, bread should
be given sparingly, lest, turning four, it corrupt the water. They
will also feed on the water-plant called _lemna_ (duck's meat), and also
on small fry.

When they want to move a little they gently protrude themselves
with their _pinnæ pectorales_; but it is with their strong muscular tails
only that they and all fishes shoot along with such inconceivable
rapidity. It has been said that the eyes of fishes are immovable:
but these apparently turn them forward or backward in their
sockets as their occasions require. They take little notice of a
lighted candle, though applied close to their heads, but flounce
and seem much frightened by a sudden stroke of the hand against
the support whereon the bowl is hung; especially when they have
been motionless, and are perhaps asleep. As fishes have no eye-
lids, it is not easy to discern when they are sleeping or not, be-
cause their eyes are always open.

Nothing can be more amusing than a glass bowl containing such
fishes: the double refractions of the glass and water represent them,
when moving, in a shifting and changeable variety of dimensions,
shades, and colours; while the two mediums, assisted by the
concavo-convex shape of the vessel, magnify and distort them
vaftly; not to mention that the introduction of another element
and its inhabitants into our parlours engages the fancy in a very
agreeable manner.

Gold
Gold and silver fishes, though originally natives of China and Japan, yet are become so well reconciled to our climate as to thrive and multiply very fast in our ponds and stews. Linnaeus ranks this species of fish under the genus of cyprinus, or carp, and calls it cyprinus auratus.

Some people exhibit this sort of fish in a very fanciful way; for they cause a glass bowl to be blown with a large hollow space within, that does not communicate with it. In this cavity they put a bird occasionally; so that you may see a goldfinch or a linnet hopping as it were in the midst of the water, and the fishes swimming in a circle round it. The simple exhibition of the fishes is agreeable and pleasant; but in so complicated a way becomes whimsical and unnatural, and liable to the objection due to him,

"Qui variare cupit rem prodigaliter unam."

I am, &c.
I think I have observed before that much the most considerable part of the *housë-martins* withdraw from hence about the first week in October; but that some, the latter broods I am now convinced, linger on till towards the middle of that month: and that at times, once perhaps in two or three years, a flight, for one day only, has shown itself in the first week in November.

Having taken notice, in October 1780, that the last flight was numerous, amounting perhaps to one hundred and fifty; and that the season was soft and still; I was resolved to pay uncommon attention to these late birds; to find, if possible, where they roofed, and to determine the precise time of their retreat. The mode of life of these latter *hirundines* is very favourable to such a design; for they spend the whole day in the sheltered district, between me and the Hanger, sailing about in a placid, easy manner, and feasting on those insects which love to haunt a spot so secure from ruffling winds. As my principal object was to discover the place of their roofling, I took care to wait on them before they retired to rest, and was much pleased to find that, for several evenings together, just at a quarter past five in the afternoon, they all scuddied away in great haste towards the south-east, and darted down among the low shrubs above the cottages at the end of the hill. This spot in many respects seems to be well calculated for their winter residence: for in many parts it is as steep
steep as the roof of any house, and therefore secure from the annoyances of water; and it is moreover clothed with beechen shrubs, which, being ftunted and bitten by fheep, make the thickest covert imaginable; and are fo entangled as to be impervious to the smalleft spaniel: besides, it is the nature of underwood beech never to caft it's leaf all the winter; so that, with the leaves on the ground and those on the twigs, no shelter can be more complete. I watched them on to the thirteenth and fourteenth of October, and found their evening retreat was exact and uniform; but after this they made no regular appearance. Now and then a straggler was seen; and, on the twenty-second of October, I observed two in the morning over the village, and with them my remarks for the season ended.

From all these circumstances put together, it is more than probable that this lingering flight, at fo late a season of the year, never departed from the island. Had they indulged me that autumn with a November visit, as I much desired, I presume that, with proper assistants, I should have settled the matter past all doubt; but though the third of November was a sweet day, and in appearance exactly suited to my wishes, yet not a martin was to be seen; and fo I was forced, reluctantly, to give up the pursuit.

I have only to add that were the bushes, which cover some acres, and are not my own property, to be grubbed and carefully examined, probably those late broods, and perhaps the whole aggregate body of the house-martins of this district, might be found there, in different secret dormitories; and that, fo far from withdrawing into warmer climes, it would appear that they never depart three hundred yards from the village.
They who write on natural history cannot too frequently advert to *instinct*, that wonderful limited faculty, which, in some instances, raises the brute creation as it were above *reason*, and in others leaves them so far below it. Philosophers have defined *instinct* to be that secret influence by which every species is impelled naturally to pursue, at all times, the same way or track, without any teaching or example; whereas *reason*, without instruction, would often vary and do that by many methods which *instinct* effects by one alone. Now this maxim must be taken in a qualified sense; for there are instances in which *instinct* does vary and conform to the circumstances of place and convenience.

It has been remarked that every species of bird has a mode of nidification peculiar to itself; so that a school-boy would at once pronounce on the sort of nest before him. This is the case among fields and woods, and wilds; but, in the villages round *London*, where mosses and goffamer, and cotton from vegetables, are hardly to be found, the nest of the *chaffinch* has not that elegant finished appearance, nor is it so beautifully studded with lichens, as in a more rural district: and the *raven* is obliged to construct its house with straws and dry grasses, which do not give it that rotundity and compactness so remarkable in the edifices of that little architect. Again, the regular nest of the *house-martin* is hemispheric;
hemispheric; but where a rafter, or a joist, or a cornice, may happen to stand in the way, the nest is so contrived as to conform to the obstruction, and becomes flat or oval, or compressed.

In the following instances instant is perfectly uniform and consistent. There are three creatures, the squirrel, the field-mouse, and the bird called the nut-batch, (fitta Europaea), which live much on hazlenuts; and yet they open them each in a different way. The first, after rasping off the small end, splits the shell in two with his long fore-teeth, as a man does with his knife; the second nibbles a hole with his teeth, so regular as if drilled with a wimble, and yet so small that one would wonder how the kernel can be extracted through it; while the last picks an irregular ragged hole with its bill: but as this artist has no paws to hold the nut firm while he pierces it, like an adroit workman, he fixes it, as it were in a vice, in some cleft of a tree, or in some crevice; when, standing over it, he perforates the stubborn shell. We have often placed nuts in the chink of a gate-post where nut-batches have been known to haunt, and have always found that those birds have readily penetrated them. While at work they make a rapping noise that may be heard at a considerable distance.

You that understand both the theory and practical part of music may best inform us why harmony or melody should so strangely affect some men, as it were by recollection, for days after a concert is over. What I mean the following passage will most readily explain:

"Praehabebat porro vocibus humanis, instrumentisque harmonico matrimoniam, illam avium: non quod aliá quoque non delectaretur; sed quod ex musica humaná relinquueretur in animo continens quaedam, attentionemque et somnumconturbans agitatio; dum ascensus, exscensus, tenores, ac mutatio..."
This curious quotation strikes me much by so well representing my own case, and by describing what I have so often felt, but never could so well express. When I hear fine music I am haunted with passages therefrom night and day; and especially at first waking, which, by their importunity, give me more uneasiness than pleasure: elegant lessons still tease my imagination, and recur irresistibly to my recollection at seasons, and even when I am desirous of thinking of more serious matters.

I am, &c.
A rare, and I think a new, little bird frequents my garden, which I have great reason to think is the pettichaps: it is common in some parts of the kingdom; and I have received formerly several dead specimens from Gibraltar. This bird much resembles the white-throat, but has a more white or rather silvery breast and belly; is restless and active, like the willow-wrens, and hops from bough to bough, examining every part for food; it also runs up the stems of the crown-imperials, and, putting its head into the bells of those flowers, sips the liquor which stands in the nectarium of each petal. Sometimes it feeds on the ground like the hedge-sparrow, by hopping about on the grass-plots and mown walks.

One of my neighbours, an intelligent and observing man, informs me that, in the beginning of May, and about ten minutes before eight o'clock in the evening, he discovered a great cluster of house-swallows, thirty at least he supposes, perching on a willow that hung over the verge of James Knight's upper-pond. His attention was first drawn by the twittering of these birds, which sat motionless in a row on the bough, with their heads all one way, and, by their weight, pressing down the twig so that it nearly touched the water. In this situation he watched them till he could see no longer. Repeated accounts of this sort, spring and fall, induce us greatly to suspect that house-swallows have some strong attachment
attachment to water, independent of the matter of food; and, though they may not retire into that element, yet they may conceal themselves in the banks of pools and rivers during the uncomfortable months of winter.

One of the keepers of Woolmer-forest sent me a peregrine-falcon, which he shot on the verge of that district as it was devouring a wood-pigeon. The falco peregrinus, or haggard falcon, is a noble species of hawk seldom seen in the southern counties. In winter 1767 one was killed in the neighbouring parish of Faringdon, and sent by me to Mr. Pennant into North-Wales. Since that time I have met with none till now. The specimen mentioned above was in fine preservation, and not injured by the shot: it measured forty-two inches from wing to wing, and twenty-one from beak to tail, and weighed two pounds and an half standing weight. This species is very robust, and wonderfully formed for rapine: its breast was plump and muscular; its thighs long, thick, and brawny; and its legs remarkably short and well set: the feet were armed with most formidable, sharp, long talons: the eyelids and cere of the bill were yellow; but the irides of the eyes dusky; the beak was thick and hooked, and of a dark colour, and had a jagged process near the end of the upper mandible on each side: its tail, or train, was short in proportion to the bulk of its body: yet the wings, when closed, did not extend to the end of the train. From its large and fair proportions it might be supposed to have been a female; but I was not permitted to cut open the specimen. For one of the birds of prey, which are usually lean, this was in high case: in its craw were many barley-corns, which probably came from the crop of the wood-pigeon, on

b See my tenth and eleventh letter to that gentleman, which
which it was feeding when shot: for voracious birds do not eat grain; but, when devouring their quarry, with undistinguishshing vehemence swallow bones and feathers, and all matters, indiscriminately. This falcon was probably driven from the mountains of North Wales or Scotland, where they are known to breed, by rigorous weather and deep snows that had lately fallen.

I am, &c.

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LETTER LVIII.

TO THE SAME.

My near neighbour, a young gentleman in the service of the East-India Company, has brought home a dog and a bitch of the Chinese breed from Canton; such as are fattened in that country for the purpose of being eaten: they are about the size of a moderate spaniel; of a pale yellow colour, with coarse bristling hairs on their backs; sharp upright ears, and peaked heads, which give them a very fox-like appearance. Their hind legs are unusually straight, without any bend at the hock or ham, to such a degree as to give them an awkward gait when they trot. When they are in motion their tails are curved high over their backs like those of some hounds, and have a bare place each on the outside from the tip midway, that does not seem to be matter of accident,
accident, but somewhat singular. Their eyes are jet-black, small, and piercing; the insides of their lips and mouths of the same colour, and their tongues blue. The bitch has a dew-claw on each hind leg; the dog has none. When taken out into a field the bitch showed some disposition for hunting, and dwelt on the scent of a covey of partridges till she sprung them, giving her tongue all the time. The dogs in South America are dumb; but these bark much in a short thick manner, like foxes; and have a furly, savage demeanour like their ancestors, which are not domesticated, but bred up in styies, where they are fed for the table with rice-meal and other farinaceous food. These dogs, having been taken on board as soon as weaned, could not learn much from their dam; yet they did not relish flesh when they came to England. In the islands of the Pacific ocean the dogs are bred up on vegetables, and would not eat flesh when offered them by our circumnavigators.

We believe that all dogs, in a state of nature, have sharp, upright fox-like ears; and that hanging ears, which are esteemed so graceful, are the effect of choice breeding and cultivation. Thus, in the Travels of J. Brandt Ides from Muscovy to China, the dogs which draw the Tartars on snow-fledges near the river Oby are engraved with prick-ears, like those from Canton. The Kamfchat-dales also train the same sort of sharp-eared peak-nosed dogs to draw their fledges; as may be seen in an elegant print engraved for Captain Cook's last voyage round the world.

Now we are upon the subject of dogs, it may not be impertinent to add, that spaniels, as all sportsmen know, though they hunt partridges and pheasants as it were by instinct, and with much delight and alacrity, yet will hardly touch their bones when offered as food; nor will a mongrel dog of my own, though he
OF SELBORNE.

is remarkable for finding that sort of game. But, when we came
to offer the bones of partridges to the two Chinese dogs, they de-
voured them with much greediness, and licked the platter clean.

No sporting dogs will flush woodcocks till inured to the scent
and trained to the sport, which they then pursue with vehemence
and transport; but then they will not touch their bones, but turn
from them with abhorrence, even when they are hungry.

Now, that dogs should not be fond of the bones of such birds as
they are not disposed to hunt is no wonder; but why they reject
and do not care to eat their natural game is not so easily accounted
for, since the end of hunting seems to be, that the chase pursued
should be eaten. Dogs again will not devour the more rancid
water-fowls, nor indeed the bones of any wild-fowls; nor will
they touch the foetid bodies of birds that feed on offal and
garbage: and indeed there may be somewhat of providential
instinct in this circumstance of dislike; for vultures, and kites,
and ravens, and crows, &c. were intended to be messmates with
dogs over their carrion; and seem to be appointed by Nature as
fellow-scavengers to remove all cadaverous nuisances from the face
of the earth.

I am, &c.

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c Hafelquisß, in his Travels to the Levant, observes that the dogs and vultures at
Grand Cairo maintain such a friendly intercourse as to bring up their young together in
the same place.

d The Chinese word for a dog to an European ear sounds like quibbub.
The fossil wood buried in the bogs of Wolmer-forest is not yet all exhausted; for the peat-cutters now and then stumble upon a log. I have just seen a piece which was sent by a labourer of Oakhanger to a carpenter of this village; this was the but-end of a small oak, about five feet long, and about five inches in diameter. It had apparently been severed from the ground by an axe, was very ponderous, and as black as ebony. Upon asking the carpenter for what purpose he had procured it; he told me that it was to be sent to his brother, a joiner at Farnham, who was to make use of it in cabinet work, by inlaying it along with whiter woods.

Those that are much abroad on evenings after it is dark, in spring and summer, frequently hear a nocturnal bird passing by on the wing, and repeating often a short quick note. This bird I have remarked myself, but never could make out till lately. I am assured now that it is the Stone-curlew, (charadrius oedicnemus). Some of them pass over or near my house almost every evening after it is dark, from the uplands of the hill and North field, away down towards Dorton; where, among the streams and meadows, they find a greater plenty of food. Birds that fly by night are obliged to be noisy; their notes often repeated become signals or watch-words to keep them together, that they may not stray or lose each other in the dark.
The evening proceedings and manoeuvres of the rooks are curious and amusing in the autumn. Just before dusk they return in long strings from the foraging of the day, and rendezvous by thousands over Selborne-down, where they wheel round in the air, and sport and dive in a playful manner, all the while exerting their voices, and making a loud cawing, which, being blended and softened by the distance that we at the village are below them, becomes a confused noise or chiding; or rather a pleasing murmur, very engaging to the imagination, and not unlike the cry of a pack of hounds in hollow, echoing woods, or the rushing of the wind in tall trees, or the tumbling of the tide upon a pebbly shore. When this ceremony is over, with the last gleam of day, they retire for the night to the deep beechen woods of Tisted and Ropley. We remember a little girl who, as she was going to bed, used to remark on such an occurrence, in the true spirit of physico-theology, that the rooks were saying their prayers; and yet this child was much too young to be aware that the scriptures have said of the Deity—that "he feedeth the ravens who call upon him."

I am, &c.
In reading Dr. Huxham's Observationes de Aére, &c. written at Plymouth, I find by those curious and accurate remarks, which contain an account of the weather from the year 1727 to the year 1748, inclusive, that though there is frequent rain in that district of Devonshire, yet the quantity falling is not great; and that some years it has been very small: for in 1731 the rain measured only 17\(\text{inch.}\)—266\(\text{hen.}\) and in 1741, 20—354; and again, in 1743 only 20—908. Places near the sea have frequent scuds, that keep the atmosphere moist, yet do not reach far up into the country; making thus the maritime situations appear wet, when the rain is not considerable. In the wettest years at Plymouth the Doctor measured only once 36; and again once, viz. 1734, 37—114: a quantity of rain that has twice been exceeded at Selborne in the short period of my observations. Dr. Huxham remarks that frequent small rains keep the air moist; while heavy ones render it more dry, by beating down the vapours. He is also of opinion that the dingy, smoky appearance in the sky, in very dry seasons, arises from the want of moisture sufficient to let the light through, and render the atmosphere transparent; because he had observed several bodies more diaphanous when wet than dry; and did never recollect that the air had that look in rainy seasons.
My friend, who lives just beyond the top of the down, brought his three swivel guns to try them in my outlet, with their muzzles towards the Hanger, supposing that the report would have had a great effect; but the experiment did not answer his expectation. He then removed them to the Alcove on the Hanger; when the sound, rushing along the Lythe and Comb-wood, was very grand: but it was at the Hermitage that the echoes and repercussions delighted the hearers; not only filling the Lythe with the roar, as if all the beeches were tearing up by the roots; but, turning to the left, they pervaded the vale above Comb-wood-ponds; and after a pause seemed to take up the strain again, and to extend round Hartley-hangers, and to die away at last among the coppices and coverts of Ward-le-ham. It has been remarked before that this district is an anathoth, a place of responses or echoes, and therefore proper for such experiments: we may farther add that the pauses in echoes, when they cease and yet are taken up again, like the pauses in music, sur prise the hearers, and have a fine effect on the imagination.

The gentleman abovementioned has just fixed a barometer in his parlour at Newton Vale
ce. The tube was first filled here (at Selborne) twice with care, when the mercury agreed and stood exactly with my own; but, being filled again twice at Newton, the mercury stood on account of the great elevation of that house, three-tenths of an inch lower than the barometers at this village, and so continues to do, be the weight of the atmosphere what it may. The plate of the barometer at Newton is figured as low as 27; because in stormy weather the mercury there will sometimes descend below 28. We have supposed Newton-house to stand two hundred feet higher than this house: but if the rule holds good, which says that mercury in a barometer sinks one-tenth
of an inch for every hundred feet elevation, then the Newton barometer, by standing three-tenths lower than that of Selborne, proves that Newton-house must be three hundred feet higher than that in which I am writing, instead of two hundred.

It may not be impertinent to add, that the barometers at Selborne stand three-tenths of an inch lower than the barometers at South Lambeth: whence we may conclude that the former place is about three hundred feet higher than the latter; and with good reason because the streams that rise with us run into the Thames at Weybridge, and so to London. Of course therefore there must be lower ground all the way from Selborne to South Lambeth; the distance between which, all the windings and indentings of the streams considered, cannot be less than an hundred miles.

I am, &c.

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LETTER
Since the weather of a district is undoubtedly part of its natural history, I shall make no further apology for the four following letters, which will contain many particulars concerning some of the great frosts and a few respecting some very hot summers, that have distinguished themselves from the rest during the course of my observations.

As the frost in January 1768 was, for the small time it lasted, the most severe that we had then known for many years, and was remarkably injurious to evergreens, some account of its rigour, and reason of its ravages, may be useful, and not unacceptable to persons that delight in planting and ornamenting; and may particularly become a work that professes never to lose sight of utility.

For the last two or three days of the former year there were considerable falls of snow, which lay deep and uniform on the ground without any drifting, wrapping up the more humble vegetation in perfect security. From the first day to the fifth of the new year more snow succeeded; but from that day the air became entirely clear; and the heat of the sun about noon had a considerable influence in sheltered situations.
It was in such an aspect that the snow on the author's evergreens was melted every day, and frozen intensely every night; so that the laurustinus, bay, laurel, and arbutus looked, in three or four days, as if they had been burnt in the fire; while a neighbour's plantation of the same kind, in a high cold situation, where the snow was never melted at all, remained uninjured.

From hence I would infer that it is the repeated melting and freezing of the snow that is so fatal to vegetation, rather than the severity of the cold. Therefore it highly behoves every planter, who wishes to escape the cruel mortification of losing in a few days the labour and hopes of years, to besitir himself on such emergencies; and, if his plantations are small, to avail himself of mats, cloths, pease-haum, straw, reeds, or any such covering, for a short time; or, if his shrubberies are extensive, to see that his people go about with prongs and forks, and carefully dislodge the snow from the boughs: since the naked foliage will shift much better for itself, than where the snow is partly melted and frozen again.

It may perhaps appear at first like a paradox; but doubtless the more tender trees and shrubs should never be planted in hot aspects; not only for the reason assigned above, but also because, thus circumstanced, they are disposed to shoot earlier in the spring, and to grow on later in the autumn, than they would otherwise do, and so are sufferers by lagging or early frosts. For this reason also plants from Siberia will hardly endure our climate; because, on the very first advances of spring, they shoot away, and so are cut off by the severe nights of March or April.

Dr. Fothergill and others have experienced the same inconvenience with respect to the more tender shrubs from North-America; which they therefore plant under north-walls. There should also perhaps be
be a wall to the east to defend them from the piercing blasts from that quarter.

This observation might without any impropriety be carried into animal life; for discerning bee-masters now find that their hives should not in the winter be exposed to the hot sun, because such unseasonable warmth awakens the inhabitants too early from their slumbers; and, by putting their juices into motion too soon, subjects them afterwards to inconveniencies when rigorous weather returns.

The coincidents attending this short but intense frost were, that the horses fell sick with an epidemic distemper, which injured the winds of many, and killed some; that colds and coughs were general among the human species; that it froze under people’s beds for several nights; that meat was so hard frozen that it could not be spitted, and could not be secured but in cellars; that several redwings and thrushes were killed by the frost; and that the large titmouse continued to pull straws lengthwise from the eaves of thatched houses and barns in a most adroit manner, for a purpose that has been explained already.¹

On the 3d of January Benjamin Martin’s thermometer within doors, in a close parlour where there was no fire, fell in the night to 20, and on the 4th to 18, and on the 7th to 17½, a degree of cold which the owner never since saw in the same situation; and he regrets much that he was not able at that juncture to attend his instrument abroad. All this time the wind continued north and north-east; and yet on the 8th roost-cocks, which had been silent, began to found their clarions, and crows to clamour, as prognostic of milder weather; and, moreover, moles began to

¹ See Letter xli. to Mr. Pennant.
heave and work, and a manifest thaw took place. From the latter circumstance we may conclude that thaws often originate under ground from warm vapours which arise; else how should subterraneous animals receive such early intimations of their approach. Moreover, we have often observed that cold seems to descend from above; for, when a thermometer hangs abroad in a frosty night, the intervention of a cloud shall immediately raise the mercury ten degrees; and a clear sky shall again compel it to descend to it's former gage.

And here it may be proper to observe, on what has been said above, that though frosts advance to their utmost severity by somewhat of a regular gradation, yet thaws do not usually come on by as regular a declension of cold; but often take place immediately from intense freezing; as men in sickness often mend at once from a paroxysm.

To the great credit of Portugal laurels and American junipers, be it remembered that they remained untouched amidst the general havoc: hence men should learn to ornament chiefly with such trees as are able to withstand accidental severities, and not subject themselves to the vexation of a loss which may befall them once perhaps in ten years, yet may hardly be recovered through the whole course of their lives.

As it appeared afterwards the ilexes were much injured, the cypresses were half destroyed, the arbutuses lingered on, but never recovered; and the bays, laurustines, and laurels, were killed to the ground; and the very wild hollies, in hot aspects, were so much affected that they cast all their leaves.

By the 14th of January the snow was entirely gone; the turnips emerged not damaged at all, save in sunny places; the wheat looked delicately, and the garden plants were well preserved; for
OF SELBORNE.

for snow is the most kindly mantle that infant vegetation can be wrapped in: were it not for that friendly meteor no vegetable life could exist at all in northerly regions. Yet in Sweden the earth in April is not divested of snow for more than a fortnight before the face of the country is covered with flowers.

LETTER LXI.

TO THE SAME.

There were some circumstances attending the remarkable frost in January 1776 so singular and striking, that a short detail of them may not be unacceptable.

The most certain way to be exact will be to copy the passages from my journal, which were taken from time to time as things occurred. But it may be proper previously to remark that the first week in January was uncommonly wet, and drowned with vast rains from every quarter: from whence may be inferred, as there is great reason to believe is the case, that intense frosts seldom take place till the earth is perfectly glutted and chilled with water; and hence dry autumns are seldom followed by rigorous winters.

* The autumn preceding January 1768 was very wet, and particularly the month of September, during which there fell at Lyndon, in the county of Rutland, six inches and an half of rain. And the terrible long frost in 1739-40 set in after a rainy season, and when the springs were very high.
January 7th.—Snow driving all the day, which was followed by frost, sleet, and some snow, till the 12th, when a prodigious mass overwhelmed all the works of men, drifting over the tops of the gates and filling the hollow lanes.

On the 14th the writer was obliged to be much abroad; and thinks he never before or since has encountered such rugged Siberian weather. Many of the narrow roads were now filled above the tops of the hedges; through which the snow was driven into most romantic and grotesque shapes, so striking to the imagination as not to be seen without wonder and pleasure. The poultry dared not to stir out of their roosting places; for cocks and hens are so dazzled and confounded by the glare of snow that they would soon perish without assistance. The hares also lay motionless in their seats, and would not move till compelled by hunger; being conscious, poor animals, that the drifts and heaps treacherously betray their footsteps, and prove fatal to numbers of them.

From the 14th the snow continued to increase, and began to stop the road wagons and coaches, which could no longer keep on their regular stages; and especially on the western roads, where the fall appears to have been deeper than in the south. The company at Bath, that wanted to attend the Queen's birthday, were strangely incommoded: many carriages of persons, who got in their way to town from Bath as far as Marlborough, after strange embarrassments, here met with a ne plus ultra. The ladies fretted, and offered large rewards to labourers if they would shovel them a track to London: but the relentless heaps of snow were too bulky to be removed; and so the 18th passed over, leaving the company in very uncomfortable circumstances at the Castle and other inns.
OF SELBORNE.

On the 20th the sun shone out for the first time since the frost began; a circumstance that has been remarked before much in favour of vegetation. All this time the cold was not very intense, for the thermometer stood at 29, 28, 25, and thereabouts; but on the 21st it descended to 20. The birds now began to be in a very pitiable and starving condition. Tamed by the season, sky-larks settled in the streets of towns, because they saw the ground was bare; rooks frequented dunghills close to houses; and crows watched horses as they passed, and greedily devoured what dropped from them; hares now came into men's gardens, and, scarping away the snow, devoured such plants as they could find.

On the 22d the author had occasion to go to London through a fort of Laplandian-scene, very wild and grotesque indeed. But the metropolis itself exhibited a still more singular appearance than the country; for, being bedded deep in snow, the pavement of the streets could not be touched by the wheels or the horses' feet, so that the carriages ran about without the least noise. Such an exemption from din and clatter was strange, but not pleasant; it seemed to convey an uncomfortable idea of desolation:

"— — — — — — — ipsa silentia terrent."

On the 27th much snow fell all day, and in the evening the frost became very intense. At South Lambeth, for the four following nights, the thermometer fell to 11, 7, 6, 6; and at Selborne to 7, 6, 10; and on the 31st of January, just before sun-rise, with rime on the trees and on the tube of the glass, the quicksilver sunk exactly to zero, being 32 degrees below the freezing point: but by eleven in the morning, though in the shade,
shade, it sprung up to $16\frac{1}{2}^\circ$.—a most unusual degree of cold this for the south of England! During these four nights the cold was so penetrating that it occasioned ice in warm chambers and under beds; and in the day the wind was so keen that persons of robust constitutions could scarcely endure to face it. The Thames was at once so frozen over both above and below bridge that crowds ran about on the ice. The streets were now strangely encumbered with snow, which crumbled and trod dusty; and, turning grey, resembled bay-salt: what had fallen on the roofs was so perfectly dry that, from first to last, it lay twenty-six days on the houses in the city; a longer time than had been remembered by the oldest housekeepers living. According to all appearances we might now have expected the continuance of this rigorous weather for weeks to come, since every night increased in severity; but behold, without any apparent cause, on the 1st of February a thaw took place, and some rain followed before night; making good the observation above, that frosts often go off as it were at once, without any gradual declension of cold. On the 2d of February the thaw persisted; and on the 3d swarms of little insects were frisking and sporting in a court-yard at South Lambeth, as if they had felt no frost. Why the juices in the small bodies and smaller limbs of such minute beings are not frozen is a matter of curious inquiry.

Severe frosts seem to be partial, or to run in currents; for, at the same juncture, as the author was informed by accurate corre-

3 At Selborne the cold was greater than at any other place that the author could hear of with certainty: though some reported at the time that at a village in Kent the thermometer fell two degrees below zero, viz. 34 degrees below the freezing point.

The thermometer used at Selborne was graduated by Benjamin Martin.
spondents, at Lyndon, in the county of Rutland, the thermometer stood at 19; at Blackburn, in Lancashire, at 19; and at Manchester at 21, 20, and 18. Thus does some unknown circumstance strangely overbalance latitude, and render the cold sometimes much greater in the southern than the northern parts of this kingdom.

The consequences of this severity were, that in Hampshire, at the melting of the snow, the wheat looked well, and the turnips came forth little injured. The laurels and laurustinus were somewhat damaged, but only in hot aspects. No evergreens were quite destroyed; and not half the damage sustained that befell in January 1768. Those laurels that were a little scorched on the south-sides were perfectly untouched on their north-sides. The care taken to shake the snow day by day from the branches seemed greatly to avail the author's evergreens. A neighbour's laurel-hedge, in a high situation, and facing to the north, was perfectly green and vigorous; and the Portugal laurels remained unhurt.

As to the birds, the thrushes and blackbirds were mostly destroyed; and the partridges, by the weather and poachers, were so thinned that few remained to breed the following year.
As the frost in December 1784 was very extraordinary, you, I trust, will not be displeased to hear the particulars; and especially when I promise to say no more about the severities of winter after I have finished this letter.

The first week in December was very wet, with the barometer very low. On the 7th, with the barometer at 28—five tenths, came on a vast snow, which continued all that day and the next, and most part of the following night; so that by the morning of the 9th the works of men were quite overwhelmed, the lanes filled so as to be impassable, and the ground covered twelve or fifteen inches without any drifting. In the evening of the 9th the air began to be so very sharp that we thought it would be curious to attend to the motions of a thermometer: we therefore hung out two; one made by Martin and one by Dollond, which soon began to shew us what we were to expect; for, by ten o'clock, they fell to 21, and at eleven to 4, when we went to bed. On the 10th, in the morning, the quicksilver of Dollond’s glafs was down to half a degree below zero; and that of Martin’s, which was absurdly graduated only to four degrees above zero, sunk quite into the brass guard of the ball; so that when the weather became most interesting this was useless. On the 10th, at eleven at night, though the air was perfectly still, Dollond’s glafs went down to
to one degree below zero! This strange severity of the weather made me very desirous to know what degree of cold there might be in such an exalted and near situation as Newton. We had therefore, on the morning of the 10th, written to Mr. ——, and entreated him to hang out his thermometer, made by Adams; and to pay some attention to it morning and evening; expecting wonderful phenomena, in so elevated a region, at two hundred feet or more above my house. But, behold! on the 10th, at eleven at night, it was down only to 17, and the next morning at 22, when mine was at ten! We were so disturbed at this unexpected reverse of comparative local cold, that we sent one of my glasses up, thinking that of Mr. —— must, some how, be wrongly constructed. But, when the instruments came to be confronted, they went exactly together: so that, for one night at least, the cold at Newton was 18 degrees less than at Selborne; and, through the whole frost, 10 or 12 degrees; and indeed, when we came to observe consequences, we could readily credit this; for all my laurustines, bays, ilexes, arbutuses, cypresses, and even my Portugal laurels, and (which occasions more regret) my fine floping laurel-hedge, were scorched up; while, at Newton, the same trees have not lost a leaf!

We had steady frost on to the 25th, when the thermometer in the morning was down to 10 with us, and at Newton only to 21. Strong frost continued till the 31st, when some tendency to thaw was observed; and, by January the 3d, 1785, the thaw was confirmed, and some rain fell.

Mr. Miller, in his Gardener’s Dictionary, says positively that the Portugal laurels remained untouched in the remarkable frost of 1739-40. So that either that accurate observer was much mistaken, or else the frost of December 1784 was much more severe and destructive than that in the year above-mentioned.
A circumstance that I must not omit, because it was new to us, is, that on Friday, December the 10th, being bright sun-shine, the air was full of icy spicule, floating in all directions, like atoms in a sun-beam let into a dark room. We thought them at first particles of the rime falling from my tall hedges; but were soon convinced to the contrary, by making our observations in open places where no rime could reach us. Were they watery particles of the air frozen as they floated; or were they evaporations from the snow frozen as they mounted?

We were much obliged to the thermometers for the early information they gave us; and hurried our apples, pears, onions, potatoes, &c. into the cellar, and warm closets; while those who had not, or neglected such warnings, lost all their store of roots and fruits, and had their very bread and cheese frozen.

I must not omit to tell you that, during those two Siberian days, my parlour-cat was so electric, that had a person stroked her, and been properly insulated, the shock might have been given to a whole circle of people.

I forgot to mention before, that, during the two severe days, two men, who were tracing hares in the snow, had their feet frozen; and two men, who were much better employed, had their fingers so affected by the frost, while they were thrashing in a barn, that a mortification followed, from which they did not recover for many weeks.

This frost killed all the furze and most of the ivy, and in many places stripped the hollies of all their leaves. It came at a very early time of the year, before old November ended; and yet may be allowed from it’s effects to have exceeded any since 1739-40.

LETTER
OF SELBORNE.

LETTER LXIII.

TO THE SAME.

As the effects of heat are seldom very remarkable in the northerly climate of England, where the summers are often so defective in warmth and sun-shine as not to ripen the fruits of the earth so well as might be wished, I shall be more concise in my account of the severity of a summer season, and so make a little amends for the prolix account of the degrees of cold, and the inconveniences that we suffered from some late rigorous winters.

The summers of 1781 and 1783 were unusually hot and dry; to them therefore I shall turn back in my journals, without recurring to any more distant period. In the former of these years my peach and nectarine-trees suffered so much from the heat that the rind on the bodies was scalded and came off; since which the trees have been in a decaying state. This may prove a hint to affiduous gardeners to fence and shelter their wall-trees with mats or boards, as they may easily do, because such annoyance is seldom of long continuance. During that summer also, I observed that my apples were coddled, as it were, on the trees; so that they had no quickness of flavour, and would not keep in the winter. This circumstance put me in mind of what I have heard travellers assert, that they never ate a good apple or apricot in the south of Europe.

Q q 2
where the heats were so great as to render the juices vapid and insipid.

The great pests of a garden are wasps, which destroy all the finer fruits just as they are coming into perfection. In 1781 we had none; in 1783 there were myriads; which would have devoured all the produce of my garden, had not we set the boys to take the nests, and caught thousands with hazel-twigs tipped with bird-lime: we have since employed the boys to take and destroy the large breeding wasps in the spring. Such expedients have a great effect on these marauders, and will keep them under. Though wasps do not abound but in hot summers, yet they do not prevail in every hot summer, as I have instanced in the two years above-mentioned.

In the sultry season of 1783 honey-dews were so frequent as to deface and destroy the beauties of my garden. My honeysuckles, which were one week the most sweet and lovely objects that the eye could behold, became the next the most loathsome; being enveloped in a viscid substance, and loaded with black aphides, or smother-flies. The occasion of this clammy appearance seems to be this, that in hot weather the effluvia of flowers in fields and meadows and gardens are drawn up in the day by a brisk evaporation, and then in the night fall down again with the dews, in which they are entangled; that the air is strongly scented, and therefore impregnated with the particles of flowers in summer weather, our senses will inform us; and that this clammy sweet substance is of the vegetable kind we may learn from bees, to whom it is very grateful: and we may be assured that it falls in the night, because it is always first seen in warm still mornings.
OF SELBORNE.

On chalky and sandy soils, and in the hot villages about London, the thermometer has been often observed to mount as high as 83 or 84; but with us, in this hilly and woody district, I have hardly ever seen it exceed 80; nor does it often arrive at that pitch. The reason, I conclude, is, that our dense clayey soil, so much shaded by trees, is not so easily heated through as those above-mentioned: and, besides, our mountains cause currents of air and breezes; and the vast effluvia from our woodlands temper and moderate our heats.

LETTER LXIV.

TO THE SAME.

The summer of the year 1783 was an amazing and portentous one, and full of horrible phenomena; for, besides the alarming meteors and tremendous thunder-storms that affrighted and distressed the different counties of this kingdom, the peculiar haze, or smokey fog, that prevailed for many weeks in this island, and in every part of Europe, and even beyond it's limits, was a most extraordinary appearance, unlike any thing known within the memory of man. By my journal I find that I had noticed this strange occurrence from June 23 to July 20 inclusive, during which period the wind varied to every quarter without making any alteration
ation in the air. The sun, at noon, looked as blank as a clouded moon, and shed a rust-coloured ferruginous light on the ground, and floors of rooms; but was particularly lurid and blood-coloured at rising and setting. All the time the heat was so intense that butchers' meat could hardly be eaten on the day after it was killed; and the flies swarmed so in the lanes and hedges that they rendered the horses half frantic, and riding irksome. The country people began to look with a superstitious awe at the red, louring aspect of the sun; and indeed there was reason for the most enlightened person to be apprehensive; for, all the while, Calabria and part of the isle of Sicily, were torn and convulsed with earthquakes; and about that juncture a volcano sprung out of the sea on the coast of Norway. On this occasion Milton's noble simile of the sun, in his first book of Paradise Lost, frequently occurred to my mind; and it is indeed particularly applicable, because, towards the end, it alludes to a superstitious kind of dread, with which the minds of men are always impressed by such strange and unusual phenomena.

"— — — As when the sun, new risen,
"Looks through the horizontal, misty air,
"Shorn of his beams; or from behind the moon,
"In dim eclipse, diastrous twilight floods
"On half the nations, and with fear of change
"Perplexes monarchs — — — — —"

LETTER
OF SELBORNE.

LETTER LXV.

TO THE SAME.

We are very seldom annoyed with thunder-storms: and it is no less remarkable than true, that those which arise in the south have hardly been known to reach this village; for, before they get over us, they take a direction to the east or to the west, or sometimes divide into two, and go in part to one of those quarters, and in part to the other; as was truly the case in summer 1783, when, though the country round was continually harassed with tempefts, and often from the south, yet we escaped them all; as appears by my journal of that summer. The only way that I can at all account for this fact—for such it is—is that, on that quarter, between us and the sea, there are continual mountains, hill behind hill, such as Nore-hill, the Barnet, Butser-hill, and Ports-down, which some how divert the storms, and give them a different direction. High promontories, and elevated grounds, have always been observed to attract clouds and disarm them of their mischievous contents, which are discharged into the trees and summits as soon as they come in contact with those turbulent meteors; while the humble vales escape, because they are so far beneath them.

But, when I say I do not remember a thunder-storm from the south, I do not mean that we never have suffered from thunder-storms
storms at all; for on June 5th, 1784, the thermometer in the morning being at 64, and at noon at 70, the barometer at 29—six tenths one-half, and the wind north, I observed a blue mist, smelling strongly of sulphur, hanging along our foping woods, and seeming to indicate that thunder was at hand. I was called in about two in the afternoon, and so missed seeing the gathering of the clouds in the north; which they who were abroad assured me had something uncommon in its appearance. At about a quarter after two the storm began in the parish of Hartley, moving slowly from north to south; and from thence it came over Norton-farm, and so to Grange-farm, both in this parish. It began with vast drops of rain, which were soon succeeded by round hail, and then by convex pieces of ice, which measured three inches in girth. Had it been as extensive as it was violent, and of any continuance (for it was very short), it must have ravaged all the neighbourhood. In the parish of Hartley it did some damage to one farm; but Norton, which lay in the center of the storm, was greatly injured; as was Grange, which lay next to it. It did but just reach to the middle of the village, where the hail broke my north windows, and all my garden-lights and hand-glases, and many of my neighbours' windows. The extent of the storm was about two miles in length and one in breadth. We were just setting down to dinner; but were soon diverted from our repast by the clattering of tiles and the jingling of glases. There fell at the same time prodigious torrents of rain on the farms above-mentioned, which occasioned a flood as violent as it was sudden; doing great damage to the meadows and fallows, by deluging the one and washing away the foil of the other. The hollow lane towards Alton was so torn and disordered as not to be passable till mended, rocks being removed that weighed 200 weight. Those that saw the effect which the great
OF SELBORNE.

great hail had on ponds and pools say that the dashing of the water made an extraordinary appearance, the froth and spray standing up in the air three feet above the surface. The rushing and roaring of the hail, as it approached, was truly tremendous.

Though the clouds at South Lambeth, near London, were at that juncture thin and light, and no storm was in sight, nor within hearing, yet the air was strongly electric; for the bells of an electric machine at that place rang repeatedly, and fierce sparks were discharged.

When I first took the present work in hand I proposed to have added an Annus Historico-naturalis, or The Natural History of the Twelve Months of the Year; which would have comprised many incidents and occurrences that have not fallen in my way to be mentioned in my series of letters;—but, as Mr. Aikin of Warrington has lately published somewhat of this sort, and as the length of my correspondence has sufficiently put your patience to the test, I shall here take a respectful leave of you and natural history together; And am,

With all due deference and regard,

Your most obliged,

And most humble servant,

SELBORNE;
June 25, 1787.

GIL. WHITE.
THE

ANTIQUITIES

OF

SHELBOURNE,

IN THE

COUNTY OF SOUTHWICK.
IT is reasonable to suppose that in remote ages this woody and
mountainous district was inhabited only by bears and wolves.
Whether the Britons ever thought it worthy their attention, is not
in our power to determine; but we may safely conclude, from
circumstances, that it was not unknown to the Romans. Old people
remember to have heard their fathers and grandfathers say that,
in dry summers and in windy weather, pieces of money were some-
times found round the verge of Woolmer-pond; and tradition had
inspired the foresters with a notion that the bottom of that lake
contained great stores of treasure. During the spring and summer of
of 1740 there was little rain; and the following summer also, 1741, was so uncommonly dry, that many springs and ponds failed, and this lake in particular, whose bed became as dusty as the surrounding heaths and wastes. This favourable juncture induced some of the forest-cottagers to begin a search, which was attended with such success, that all the labourers in the neighbourhood flocked to the spot, and with spades and hoes turned up great part of that large area. Instead of pots of coins, as they expected, they found great heaps, the one lying on the other, as if shot out of a bag; many of which were in good preservation. Silver and gold these inquirers expected to find; but their discoveries consisted solely of many hundreds of Roman copper-coins, and some medallions, all of the lower empire. There was not much virtù stirring at that time in this neighbourhood; however, some of the gentry and clergy around bought what pleased them best; and some dozens fell to the share of the author.

The owners at first held their commodity at an high price; but, finding that they were not likely to meet with dealers at such a rate, they soon lowered their terms, and sold the fairest as they could. The coins that were rejected became current, and passed for farthings at the petty shops. Of those that we saw, the greater part were of Marcus Aurelius, and the Empress Faustina, his wife, the father and mother of Commodus. Some of Faustina were in high relief, and exhibited a very agreeable set of features, which probably resembled that lady, who was more celebrated for her beauty than for her virtues. The medallions in general were of a paler colour than the coins. To pretend to account for the means of their coming to this place would be spending time in conjecture. The spot, I think, could not be a Roman camp, because it is commanded by hills on two sides; nor does it shew the least traces of
OF SELBORNE.

of entrenchments; nor can I suppose that it was a Roman town, because I have too good an opinion of the taste and judgment of those polished conquerors to imagine that they would settle on so barren and dreary a waste.

LETTER II.

That Selborne was a place of some distinction and note in the time of the Saxons we can give most undoubted proofs. But, as there are few if any accounts of villages before Domesday, it will be best to begin with that venerable record. "Ipse rex tenet " Selborne. Eddid regina tenuit, et nunquam geldavit. De isto " manerio dono dedit rex Radfvedo presbytero dimidiam hidam " cum ecclesia. Tempore regis Edwari et post, valuit duodecim " solidos et sex denarios; modo octo solidos et quatuor denarios." Here we see that Selborne was a royal manor; and that Editha, the queen of Edward the Confessor, had been lady of that manor; and was succeeded in it by the Conqueror; and that it had a church. Beside these, many circumstances concur to prove it to have been a Saxon village; such as the name of the place itself,

1 Selbourne, Seleburne, Selburn, Selburn, Selborne, and Selborn, as it has been variously spelt at different periods, is of Saxon derivation; for Sel signifies great, and burn torrens, a brook or rivulet; so that the name seems to be derived from the great perennial stream that breaks out at the upper end of the village.—Sel also signifies bonus, item, facundus, fertilis. "Sel gærstun: facunda graminis clausura; fertile pascuum; a meadow in the parish of Godelming is still called Sal-gars-ton." Lyce's Saxon Dictionary, in the Supplement, by Mr. Manning.
the names of many fields, and some families \( k \), with a variety of words in husbandry and common life, still subsisting among the country people.

What probably first drew the attention of the Saxons to this spot was the beautiful spring or fountain called *Well-head*, which induced them to build by the banks of that perennial current; for ancient settlers loved to reside by brooks and rivulets, where they could dip for their water without the trouble and expense of digging wells and of drawing.

It remains still unsettled among the antiquaries at what time tracts of land were first appropriated to the chase alone for the amusement of the sovereign. Whether our Saxon monarchs had any royal forests does not, I believe, appear on record; but the *Constitutiones de Foresta of Canute*, the Dane, are come down to us. We shall not therefore pretend to say whether *Woolmer-forest* existed as a royal domain before the conquest. If it did not, we may suppose it

\( k \) Thus the name of *Aldred* signifies *all-reverend*, and that of *Kemp* means *a soldier*. Thus we have a *church-litton*, or enclosure for dead bodies, and not a *church-yard*; there is also a *Culver-croft* near the *Grange-farm*, being the enclosure where the priory *pigeon-house* stood, from *culver* a pigeon. Again there are three steep pastures in this parish called the *Lithe*, from *Hlithe*, *clivus*. The wicker-work that binds and fastens down a hedge on the top is called *ether*, from *ether* an hedge. When the good women call their hogs they cry *fic*, *fic* 

\( * \) Thus *Saxa* purus, *apud Latins*; un Porc an *Laèdemœnium* ce mot a sans doute été pris des *Celtic*, qui disent *fic*, pour marquer un porc. Encore aujourd'hui quand les Bretons chaf- sent ces animaux, ils ne disent point autrement, que *fic*, *fic*.

*Antiquités de la Nation, et de la Langue des Celtes* par *Perron*.
was laid out by some of our earliest Norman kings, who were exceedingly attached to the pleasures of the chace, and resided much at Winchester, which lies at a moderate distance from this district. The Plantagenet princes seem to have been pleased with Woolmer; for tradition says that king John resided just upon the verge, at Ward-le-ham, on a regular and remarkable mount, still called King John's Hill and Lodge Hill; and Edward III. had a chapel in his park, or enclosure, at Kingsley. Humphrey, duke of Gloucester, and Richard, duke of York, say my evidences, were both, in their turns, wardens of Woolmer-forest; which seems to have served for an appointment for the younger princes of the royal family, as it may again.

I have intentionally mentioned Edward III. and the dukes Humphrey and Richard, before king Edward II. because I have reserved, for the entertainment of my readers, a pleasant anecdote respecting that prince, with which I shall close this letter.

As Edward II. was hunting on Woolmer-forest, Morris Ken, of the kitchen, fell from his horse several times; at which accidents the king laughed immoderately: and, when the chase was over, ordered him twenty shillings; an enormous sum for those days! Proper allowances ought to be made for the youth of this monarch, whose spirits also, we may suppose, were much exhilarated by the sport of the day: but, at the same time, it is reasonable to remark

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1 The parish of Kingsley lies between, and divides Woolmer-forest from Ayles Holt-forest. See Letter IX. to Mr. Pennant.

m "Item, paid at the lodge at Woolmer, when the king was flag-hunting there, to Morris Ken, of the kitchen, because he rode before the king and often fell from his horse, at which the king laughed exceedingly — a gift, by command, of twenty shillings."

A MSS, in possession of Thomas Aalt, esq. containing the private expenses of Edward II.
that, whatever might be the occasion of Ken's first fall, the subsequent ones seem to have been designed. The scullion appears to have been an artful fellow, and to have seen the king's foible; which furnishes an early specimen of that his easy softness and facility of temper, of which the infamous Gaveston took such advantages, as brought innumerableness calamities on the nation, and involved the prince at last in misfortunes and sufferings too deplorable to be mentioned without horror and amazement.

LETTER III.

From the silence of Domesday respecting churches, it has been supposed that few villages had any at the time when that record was taken; but Selborne, we see, enjoyed the benefit of one: hence we may conclude, that this place was in no abject state even at that very distant period. How many fabrics have succeeded each other since the days of Radfredrus the presbyter, we cannot pretend to say; our business leads us to a description of the present edifice, in which we shall be circumstantial.

Our church, which was dedicated to the Virgin Mary, consists of three ailes, and measures fifty-four feet in length by forty-seven in breadth, being almost as broad as it is long. The present building has no pretensions to antiquity; and is, as I suppose, of no earlier date than the beginning of the reign of Henry VII.
OF SELBORNE.

It is perfectly plain and unadorned, without painted glass, carved work, sculpture, or tracery. But when I say it has no claim to antiquity, I would mean to be underflood of the fabric in general; for the pillars which support the roof are undoubtedly old, being of that low, squat, thick order, usually called Saxon. These, I should imagine, upheld the roof of a former church, which, falling into decay, was rebuilt on those massive props, because their strength had preserved them from the injuries of time. Upon these rest blunt gothic arches, such as prevailed in the reign above-mentioned, and by which, as a criterion, we would prove the date of the building.

At the bottom of the south aisle, between the west and south doors, stands the font, which is deep and capacious, and consists of three massive round stones, piled one on another, without the least ornament or sculpture: the cavity at the top is lined with lead, and has a pipe at bottom to convey off the water after the sacred ceremony is performed.

The east end of the south aisle is called the South Chancel, and, till within these thirty years, was divided off by old carved gothic framework of timber, having been a private chantry. In this opinion we are more confirmed by observing two gothic niches within the space, the one in the east wall and the other in the south, near which there probably stood images and altars.

In the middle aisle there is nothing remarkable; but I remember when it's beams were hung with garlands in honour of

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a In the same manner, to compare great things with small, did Wykeham, when he new-built the cathedral at Winchester, from the tower westward, apply to his purpose the old piers or pillars of Bishop Walkelin's church, by blending Saxon and Gothic architecture together. See Lovel's Life of Wykeham.

SS 2 young
young women of the parish, reputed to have died virgins; and recollect to have seen the clerk's wife cutting, in white paper, the resemblances of gloves, and ribbons to be twisted into knots and roses, to decorate these memorials of chastity. In the church of Faringdon, which is the next parish, many garlands of this sort still remain.

The north aisle is narrow and low, with a sloping ceiling, reaching within eight or nine feet of the floor. It had originally a flat roof covered with lead, till, within a century past, a churchwarden stripping off the lead, in order, as he said, to have it mended, sold it to a plumber, and ran away with the money. This aisle has no door, for an obvious reason; because the north side of the church-yard, being surrounded by the vicarage-garden, affords no path to that side of the church. Nothing can be more irregular than the pews of this church, which are of all dimensions and heights, being patched up according to the fancy of the owners: but whoever nicely examines them will find that the middle aisle had, on each side, a regular row of benches of solid oak, all alike, with a low back-board to each. These we should not hesitate to say are coeval with the present church: and especially as it is to be observed that, at their ends, they are ornamented with carved blunt gothic niches, exactly correspondent to the arches of the church, and to a niche in the south wall. The south aisle also has a row of these benches; but some are decayed through age, and the rest much disguised by modern alterations.

At the upper end of this aisle, and running out to the north, stands a transept, known by the name of the North Chancel, measuring twenty-one feet from south to north, and nineteen feet from east to west: this was intended, no doubt, as a private chantry; and was also, till of late, divided off by a gothic framework.
work of timber. In its north wall, under a very blunt gothic arch, lies perhaps the founder of this edifice, which, from the shape of its arch, may be deemed no older than the latter end of the reign of Henry VII. The tomb was examined some years ago, but contained nothing except the scull and thigh-bones of a large tall man, and the bones of a youth or woman, lying in a very irregular manner, without any escutcheon or other token to ascertain the names or rank of the deceased. The grave was very shallow, and lined with stone at the bottom and on the sides.

From the east wall project four stone brackets, which I conclude supported images and crucifixes. In the great thick pilaster, jutting out between this transept and the chancel, there is a very sharp gothic niche, of older date than the present chantry or church. But the chief pieces of antiquity are two narrow stone coffin-lids, which compose part of the floor, and lie from west to east, with the very narrow ends eastward: these belong to remote times; and, if originally placed here, which I doubt, must have been part of the pavement of an older transept. At present there are no coffins under them, whence I conclude they have been removed to this place from some part of a former church. One of these lids is so eaten by time, that no sculpture can be discovered upon it; or, perhaps, it may be the wrong side uppermost; but on the other, which seems to be of stone of a closer and harder texture, is to be discerned a discus, with a cross on it, at the end of a staff or rod, the well-known symbol of a Knight-Templar.

This order was distinguished by a red cross on the left shoulder of their cloak, and by this attribute in their hand. Now, if these

* See Dugdale, Monasticon Anglicanum, Vol. II, where there is a fine engraving of a Knight-Templar, by Hollar.
stones belonged to Knights Templars, they must have lain here many centuries; for this order came into England early in the reign of king Stephen in 1113; and was dissolved in the time of Edward II. in 1312, having subsisted only one hundred and ninety-nine years. Why I should suppose that Knights Templars were occasionally buried at this church, will appear in some future letter, when we come to treat more particularly concerning the property they possessed here, and the intercourse that subsisted between them and the priors of Selborne.

We must now proceed to the chancel, properly so called, which seems to be coeval with the church, and is in the same plain unadorned style, though neatly kept. This room measures thirty-one feet in length, and sixteen feet and an half in breadth, and is wainscoted all round, as high as to the bottom of the windows. The space for the communion table is raised two steps above the rest of the floor, and railed in with oaken balusters. Here I shall say somewhat of the windows of the chancel in particular, and of the whole fabric in general. They are mostly of that simple and unadorned sort called Lancet, some single, some double, and some in triplets. At the east end of the chancel are two of a moderate size, near each other; and in the north wall two very distant small ones, unequal in length and height: and in the south wall are two, one on each side of the chancel door, that are broad and squat, and of a different order. At the east end of the south aisle of the church there is a large lancet-window in a triplet; and two very small, narrow, single ones in the south wall, and a broad squat window beside, and a double lancet one in the west end; so that the appearance is very irregular. In the north aisle are two windows, made shorter when the roof was sloped; and in the north transept a large triple window, shortened at
OF SELBORNE.

at the time of a repair in 1721; when over it was opened a round one of considerable size, which affords an agreeable light, and renders that chantry the most cheerful part of the edifice.

The church and chancels have all coved roofs, ceiled about the year 1683; before which they were open to the tiles and shingles, showing the naked rafters, and threatening the congregation with the fall of a spar, or a blow from a piece of loose mortar.

On the north wall of the chancel is fixed a large oval white marble monument, with the following inscription; and at the foot of the wall, over the deceased, and inscribed with his name, age, arms, and time of death, lies a large slab of black marble:

Propse hune parietem sepelitur
GILBERTUS WHITE, SAMSONIS WHITE, de
Oxon. militiae filius tertius, Collegii Magdalen-
enasis ibidem alumnus, & focius. Tandem faven-
te collegio ad hanc ecclesiam promotus; ubi prime-
và morum simplicitate, et diffusa erga omnes bene-
-volentia feliciter conuenit.

Paedor fidelis, comis, affabilis,
Maritus, et pater amans amantissimus,
A conjugé invicem, et libris, atque
A parochianis insinuatus dilectus.
L'ausperibus òt beneficis
ut decimam partem census
moribundus
piis usibus confecravit.

Meritis demum juxta et annis plenus
ex hac vita migravit Feb. 13º,
anno salutis 1723
Ætatis fuit 77.
Hoc posuit Rebecca
Conjux illius melissime,
mos òcutora.
On the same wall is newly fixed a small square table-monument of white marble, inscribed in the following manner:

Sacred to the memory
of the Rev'd. ANDREW ETTY, B. D.
23 Years Vicar of this parish:
In whose character
The conjugal, the parental, and the pastoral virtues
were so happily combined
as to deserve the imitation of mankind.
And if in any particular he followed more invariably
the steps of his blessed Master,
It was in his humility,
His parishioners,
especially the sick and necessitous,
as long as any traces of his memory shall remain,
must lament his death.
To perpetuate such an example, this stone is erected;
as while living he was a preacher of righteousness,
so, by it, he being dead yet speaketh.
He died April 8th. 1784. aged 66 years.
WE have now taken leave of the inside of the church, and shall pass by a door at the west end of the middle aisle into the belfry. This room is part of a handsome square embattled tower of forty-five feet in height, and of much more modern date than the church; but old enough to have needed a thorough repair in 1781, when it was neatly stuccoed at a considerable expense, by a set of workmen who were employed on it for the greatest part of the summer. The old bells, three in number, loud and out of tune, were taken down in 1735, and cast into four; to which Sir Simon Stuart, the grandfather of the present baronet, added a fifth at his own expense: and, bestowing it in the name of his favourite daughter Mrs. Mary Stuart, caused it to be cast with the following motto round it:

"Clara puella dedit, dixitque mihi es tu Maria:"
"Illius et laudes nomen ad astra fono."

The day of the arrival of this tuneable peal was observed as an high festival by the village, and rendered more joyous, by an order from the donor, that the treble-bell should be fixed bottom upward in the ground, and filled with punch, of which all present were permitted to partake.

The porch of the church, to the south, is modern, and would not be worthy attention did it not shelter a fine sharp gothic door-way. This is undoubtedly much older than the present fabric; and,
being found in good preservation, was worked into the wall, and is the grand entrance into the church: nor are the folding-doors to be passed over in silence; since, from their thick and clumsy structure, and the rude flourished-work of their hinges, they may possibly be as ancient as the door-way itself.

The whole roof of the south aile, and the south-side of the roof of the middle aile, is covered with oaken shingles instead of tiles, on account of their lightness, which favours the ancient and crazy timber-frame. And, indeed, the consideration of accidents by fire excepted, this sort of roofing is much more eligible than tiles. For shingles well seasoned, and cleft from quartered timber, never warp, nor let in drifting snow; nor do they shiver with frost; nor are they liable to be blown off, like tiles; but, when well nailed down, last for a long period, as experience has shown us in this place, where those that face to the north are known to have endured, untouched, by undoubted tradition for more than a century.

Considering the size of the church, and the extent of the parish, the church-yard is very scanty; and especially as all wish to be buried on the south-side, which is become such a mass of mortality that no person can be there interred without disturbing or displacing the bones of his ancestors. There is reason to suppose that it once was larger, and extended to what is now the vicarage court and garden; because many human bones have been dug up in those parts several yards without the present limits. At the east end are a few graves; yet none till very lately on the north-side but, as two or three families of best repute have begun to bury in that quarter, prejudice may wear out by degrees, and their example be followed by the rest of the neighbourhood.
North View of Selborne Church.
Published Nov. 5, 1740, at the At Meats, by W. White.
In speaking of the church, I have all along talked of the east and west-end, as if the chancel stood exactly true to those points of the compass; but this is by no means the case, for the fabric bears so much to the north of the east that the four corners of the tower, and not the four sides, stand to the four cardinal points. The best method of accounting for this deviation seems to be, that the workmen, who probably were employed in the longest days, endeavoured to set the chancels to the rising of the sun.

Close by the church, at the west end, stands the vicarage-house; an old, but roomy and convenient edifice. It faces very agreeably to the morning sun, and is divided from the village by a neat and cheerful court. According to the manner of old times, the hall was open to the roof; and so continued, probably, till the vicars became family-men, and began to want more conveniencies; when they flung a floor across, and, by partitions, divided the space into chambers. In this hall we remember a date, some time in the reign of Elizabeth; it was over the door that leads to the stairs.

Behind the house is a garden of an irregular shape, but well laid out; whose terrace commands so romantic and picturesque a prospect, that the first master in landscape might contemplate it with pleasure, and deem it an object well worthy of his pencil.
In the church-yard of this village is a j euw-tree, whose aspect bespeaks it to be of a great age: it seems to have seen several centuries, and is probably coeval with the church, and therefore may be deemed an antiquity: the body is squat, short, and thick, and measures twenty-three feet in the girth, supporting an head of suitable extent to its bulk. This is a male tree, which in the spring sheds clouds of dust, and fills the atmosphere around with its farina.

As far as we have been able to observe, the males of this species become much larger than the females; and it has so fallen out that most of the yew-trees in the church-yards of this neighbourhood are males: but this must have been matter of mere accident, since men, when they first planted yews, little dreamed that there were sexes in trees.

In a yard, in the midst of the street, till very lately grew a middle-sized female tree of the same species, which commonly bore great crops of berries. By the high winds usually prevailing about the autumnal equinox, these berries, then ripe, were blown down into the road, where the hogs ate them. And it was very remarkable, that, though barrow-hogs and young sows found no inconvenience from this food, yet milch-sows often died after such a repast: a circumstance that can be accounted for only by supposing that the latter, being much exhausted and hungry, devoured a larger quantity.

While
OF SELBORNE.

While mention is making of the bad effects of yew-berries, it may be proper to remind the unwary that the twigs and leaves of yew, though eaten in a very small quantity, are certain death to horses and cows, and that in a few minutes. An horse tied to a yew-hedge, or to a faggot-stack of dead yew, shall be found dead before the owner can be aware that any danger is at hand: and the writer has been several times a sorrowful witness to losses of this kind among his friends; and in the island of Ely had once the mortification to see nine young steers or bullocks of his own all lying dead in an heap from browsing a little on an hedge of yew in an old garden, into which they had broken in snowy weather. Even the clippings of a yew-hedge have destroyed a whole dairy of cows when thrown inadvertently into a yard. And yet sheep and turkies, and, as park-keepers say, deer, will crop these trees with impunity.

Some intelligent persons assert that the branches of yew, while green, are not noxious; and that they will kill only when dead and withered, by lacerating the stomach: but to this assertion we cannot by any means assent, because, among the number of cattle that we have known fall victims to this deadly food, not one has been found, when it was opened, but had a lump of green yew in it's paunch. True it is, that yew-trees stand for twenty years or more in a field, and no bad consequences ensue: but at some time or other cattle, either from wantonness when full, or from hunger when empty, (from both which circumstances we have seen them perish) will be meddling, to their certain destruction; the yew seems to be a very improper tree for a pasture-field.

Antiquaries seem much at a loss to determine at what period this tree first obtained a place in church-yards. A statute passed A.D. 1307 and 35 Edward I. the title of which is "Ne rector " arbores
A N T I Q U I T I E S

"arbores in cemeterio profternat." Now if it is recollected that we seldom see any other very large or ancient tree in a churchyard but yews, this statute must have principally related to this species of tree; and consequently their being planted in churchyards is of much more ancient date than the year 1307.

As to the use of these trees, possibly the more respectable parishioners were buried under their shade before the improper custom was introduced of burying within the body of the church, where the living are to assemble. Deborah, Rebekah's nurse, was buried under an oak; the most honourable place of interment probably next to the cave of Machpelah, which seems to have been appropriated to the remains of the patriarchal family alone.

The farther use of yew-trees might be as a screen to churches, by their thick foliage, from the violence of winds; perhaps also for the purpose of archery, the best long bows being made of that material: and we do not hear that they are planted in the churchyards of other parts of Europe, where long bows were not so much in use. They might also be placed as a shelter to the congregation assembling before the church-doors were opened, and as an emblem of mortality by their funereal appearance. In the south of England every church-yard almost has its tree, and some two; but in the north, we understand, few are to be found.

The idea of R. C. that the yew-tree afforded its branches instead of palms for the processions on Palm-Sunday, is a good one, and deserves attention.


9 Gen. xxxv, 3. 5 Gen. xxiii, 9.
OF SELBORNE.

LETTER VI.

The living of Selborne was a very small vicarage; but, being in the patronage of Magdalen-college, in the university of Oxford, that society endowed it with the great tithes of Selborne, more than a century ago: and since the year 1758 again with the great tithes of Oakbanger, called Bene's parsonage: so that, together, it is become a respectable piece of preferment, to which one of the fellows is always presented. The vicar holds the great tithes, by lease, under the college. The great disadvantage of this living is, that it has not one foot of glebe near home.

Its payments are,

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I am unable to give a complete list of the vicars of this parish till towards the end of the reign of queen Elizabeth; from which period the registers furnish a regular series.

In Domesday we find thus—"De icto manerio dono dedit Rex "Radfredd presbytero dimidiam hidam cum ecclesia." So that before Domesday, which was compiled between the years 1081 and 1086, here was an officiating minister at this place.

* At Bene's, or Bie's, parsonage there is a house and stout barn, and seven acres of glebe: Bene's parsonage is three miles from the church.

After
After this, among my documents, I find occasional mention of a vicar here and there: the first is

Roger, instituted in 1254.
In 1410 John Lynne was vicar of Selborne.
In 1411 Hugo Tybbe was vicar.

The presentations to the vicarage of Selborne generally ran in the name of the prior and the convent; but Tybbe was presented by prior John Wynechejlre only.

June 29, 1528, William Fisher, vicar of Selborne, resigned to Miles Peyrsyn.

1594, William White appears to have been vicar to this time. Of this person there is nothing remarkable, but that he hath made a regular entry twice in the register of Selborne of the funeral of Thomas Cowper, bishop of Winchester, as if he had been buried at Selborne; yet this learned prelate, who died 1594, was buried at Winchester, in the cathedral, near the episcopall throne.

1595, Richard Boughton, vicar.
1596, William Inksorbye, vicar.
May 1606, Thomas Phippes, vicar.
June 1631, Ralph Ausillne, vicar.
July 1632, John Longworth. This unfortunate gentleman, living in the time of Cromwell's usurpation, was deprived of his preferment for many years, probably because he would not take the league and covenant: for I observe that his father-in-law, the Reverend Jethro Beal, rectore of Faringdon, which is the next parish, enjoyed his benefice during the whole of that unhappy period. Longworth, after he was dispoffesed, retired to a little tenement about one hundred and fifty yards from the church, where he earned a

* See Godwin de præsulibus, folio Cant. 1743, page 239.
small pittance by the practice of physic. During those dismal times it was not uncommon for the depofed clergy to take up a medical character; as was the case in particular, I know, with the Reverend Mr. Yalden, rector of Compton, near Guildford, in the county of Surrey. Vicar Longworth used frequently to mention to his sons, who told it to my relations, that, the Sunday after his deprivation, his puritanical successor stepped into the pulpit with no small petulance and exultation; and began his sermon from Psalm xx. 8. "They are brought down and fallen; but we are risen " and stand upright." This person lived to be restored in 1660, and continued vicar for eighteen years; but was so impoverished by his misfortunes, that he left the vicarage-house and premises in a very abject and dilapidated state.

July 1678. Richard Byfield, who left eighty pounds by will, the interest to be applied to apprentice out poor children: but this money, lent on private security, was in danger of being lost, and the bequeft remained in an unsettled state for near twenty years, till 1700; so that little or no advantage was derived from it. About the year 1759 it was again in the utmost danger by the failure of a borrower; but, by prudent management, has since been raised to one hundred pounds stock in the three per cents reduced. The trustees are the vicar and the renters or owners of Temple, Priory, Grange, Blackmore, and Oakbanger-house, for the time being. This gentleman seemed inclined to have put the vicarial premises in a comfortable state; and began, by building a solid stone wall round the front-court, and another in the lower yard, between that and the neighbouring garden; but was interrupted by death from fulfilling his laudable intentions.

April, 1680, Barnabus Long became vicar.
June 1681. This living was now in such low estimation in Magdalen-college that it descended to a junior fellow, Gilbert White, M. A. who was instituted to it in the thirty-first year of his age. At his first coming he ceiled the chancel, and also flooed and wainscoted the parlour and hall, which before were paved with stone, and had naked walls; he enlarged the kitchen and brewhouse, and dug a cellar and well: he also built a large new barn in the lower yard, removed the hovels in the front court, which he laid out in walks and borders; and entirely planned the back garden, before a rude field with a stone-pit in the midst of it. By his will he gave and bequeathed "the sum of forty pounds to be laid out in the most necessary repairs of the church; that is, in strengthening and securing such parts as seem decaying and dangerous." With this sum two large buttresses were erected to support the east end of the south wall of the church; and the gable-end wall of the west end of the south aisle was new built from the ground.

By his will also he gave "One hundred pounds to be laid out on lands; the yearly rents whereof shall be employed in teaching the poor children of Selborne parish to read and write, and say their prayers and catechism, and to few and knit: and be under the direction of his executrix as long as she lives; and, after her, under the direction of such of his children and their issue, as shall live in or within five miles of the said parish: and on failure of any such, then under the direction of the vicar of Selborne for the time being; but still to the uses above-named." With this sum was purchased, of Thomas Turville, of Hawkeley, in the county of Southampton, yeoman, and Hannah his wife, two closes of freehold land, commonly called Collier's, containing, by estimation, eleven acres, lying in Hawkeley aforesaid.
These closes are let at this time, 1735, on lease, at the rate of three pounds by the year.

This vicar also gave by will two hundred pounds towards the repairs of the highways in the parish of Selborne. That sum was carefully and judiciously laid out in the summer of the year 1730, by his son John White, who made a solid and firm causey from Rood-green, all down Honey-lane, to a farm called Oak-woods, where the sandy soil begins. This miry and gulsy lane was chosen as worthy of repair, because it leads to the forest, and thence through the Holt to the town of Farnham in Surrey, the only market in those days for men who had wheat to sell in this neighbourhood. This causey was so deeply bedded with stone, so properly raised above the level of the soil, and so well drained, that it has, in some degree, withstood fifty-four years of neglect and abuse; and might, with moderate attention, be rendered a solid and comfortable road. The space from Rood-green to Oak-woods measures about three quarters of a mile.

In 1727, William Henry Cane, B.D. became vicar; and, among several alterations and repairs, new-built the back front of the vicarage-house.

On February 1, 1740, Duncombe Briscowe, D.D. was instituted to this living. What benefactions this vicar bestowed on the parish will be best explained by the following passages from his will:—

"Item, I hereby give and bequeath to the minister and churchwardens of the parish of Selbourn, in the county of Southampton, a mahogany table, which I have ordered to be made for the celebration of the Holy Communion; and also the sum of thirty pounds.

"Such legacies were very common in former times, before any effectual laws were made for the repairs of highways," Sir John Culham's Handbed, p. 15.
thirty pounds, in trust, to be applied in manner following; that
is, ten pounds towards the charge of erecting a gallery at the
west end of the church; and ten pounds to be laid out for
cloathing, and such like necessaries, among the poor (and
especially among the ancient and infirm) of the said parish:
and the remaining ten pounds to be distributed in bread, at
twenty shillings a week, at the discretion of John White, esq.
or any of his family, who shall be resident in the said parish.”

On November 12, 1758, Andrew Etty, B. D. became vicar. Among many useful repairs he new-roofed the body of the vicarage-house; and wainscoted, up to the bottom of the windows, the whole of the chancel; to the neatness and decency of which he always paid the most exact attention.

On September 25, 1784, Christopher Taylor, B. D. was inducted into the vicarage of Selborne.
I shall now proceed to the Priory, which is undoubtedly the most interesting part of our history.

The Priory of Selborne was founded by Peter de la Roche, or de Rupibus*, one of those accomplished foreigners that resorted to the court of king John, where they were usually cared for, and met with a more favourable reception than ought, in prudence, to have been shown by any monarch to strangers. This adventurer was a Foileavin by birth, had been bred to arms in his youth, and distinguished by knighthood. Historians all agree not to speak very favourably of this remarkable man; they allow that he was possessed of courage and fine abilities, but then they charge him with arbitrary principles, and violent conduct. By his insinuating manners he soon rose high in the favour of John; and in 1205, early in the reign of that prince, was appointed bishop of Winchester. In 1214 he became lord chief jussiciary of England, the first magistrate in the state, and a kind of viceroy, on whom depended all the civil affairs in the kingdom. After the death of John, and during the minority of his son Henry, this prelate took upon him the entire management of the realm, and was soon appointed protector of the king and kingdom.

The barons saw with indignation a stranger possessed of all the power and influence, to part of which they thought they had a claim; they therefore entered into an association against him, and determined to wrest some of that authority from him which he had so unreasonably usurped. The bishop discerned the storm at a distance; and, prudently resolving to give way to that torrent of envy which he knew not how to withstand, withdrew quietly to the Holy Land, where he resided some time.

At this juncture a very small part of Palestine remained in the hands of the Christians: they had been by Saladin dispossessed of Jerusalem, and all the internal parts, near forty years before; and with difficulty maintained some maritime towns and garrisons: yet the busy and enterprising spirit of de Rupibus could not be at rest; he distinguished himself by the splendour and magnificence of his expenses, and amused his mind by strengthening fortresses and castles, and by removing and endowing of churches. Before his expedition to the east he had signalized himself as a founder of convents, and as a benefactor to hospitals and monasteries.

In the year 1231 he returned again to England; and the very next year, in 1232, began to build and endow the Priory of Selborne. As this great work followed so close upon his return, it is not improbable that it was the result of a vow made during his voyage; and especially as it was dedicated to the Virgin Mary. Why the bishop made choice of Selborne for the scene of his munificence can never be determined now: it can only be said that the parish was in his diocese, and lay almost midway between Winchester and Farnham, or South Wiltshire and Farnham; from either of which places he could without much trouble overlook his workmen, and observe what progress they made; and that the situation was retired, with a stream running by it, and sequestered
fequestered from the world, amidst woods and meadows, and so far proper for the site of a religious house.

The first person with whom the founder treated about the purchase of land was Jacobus de Achangre, or Ochangre, a gentleman of property who resided at that hamlet; and, as appears, at the house now called Oakhanger-house. With him he agreed for a croft, or little close of land, known by the name of La liega, or La lyge, which was to be the immediate site of the Priory.

De Achangre also accommodated the bishop at the same instant with three more adjoining crofts, which for a time was all the footing that this institution obtained in the parish. The seller in the conveyance says "Warantizabimus, defendemus, et æquietabimus "contra omnes gentes";" viz. "We will warrant the thing sold "against all claims from any quarter." In modern conveyancing this would be termed a covenant for further assurance. Afterwards is added — "Pro hac autem donacione, &c. dedit mihi pred. "Episcopus sexdecem marcas argenti in Gerfunam:" i.e. "the "bishop gave me sixteen silver marks as a consideration for the "thing purchased."

The institution at Selborne was a priory of Black-Canons of the order of St. Augustine, called also Canons-Regular. Regular-Canons were such as lived in a conventual manner, under one roof, had a common refectory and dormitory, and were bound by vows to observe the rules and statutes of their order: in fine, they were a kind of religious, whose discipline was less rigid than the monks. The chief rule of these canons was that of St. Augustine, who was constituted bishop of Hippo, A.D. 395: but they were not brought into England till after the conquest; and seem not to have obtained the appellation of Augustine canons till some years after. Their habit was a long black cassock, with a white rocket over it; and over that a black cloak and hood. The monks were always shaven; but these canons wore their hair and beards, and caps on their heads. There were of these canons, and women of the same order called Canoness, about 175 houses.
As the grant from Jac. de Archangre was without date, and the next is circumstanced in the same manner, we cannot say exactly what interval there was between the two purchases; but we find that Jacobus de Norton, a neighbouring gentleman, also soon sold to the bishop of Winchester some adjoining grounds, through which our stream passes, that the priory might be accommodated with a mill, which was a common necessary appendage to every manor: he also allowed access to these lands by a road for carts and wagons.—*Jacobus de Norton concedit Petro Winton episcopo totum cursum aque que descendit de Molendino de Durton usq; ad boscum Will. Mauduit, et crofam terre vocat: Edriche croft, cum extensione ejusdem et abuttamentis; ad fundandam domum religiosam de ordine Sti. Augustini. Concedit etiam viam ad carro, et caretas," &c. This vale, down which runs the brook, is now called the Long Lithe, or Lythe. Bating the following particular expression, this grant runs much in the style of the former; "Dedit mihi episcopus predictus triginta quinque marcas argenti ad me acquietandum versus Judaos."—that is, "the bishop advanced me thirty-five marks of silver to pay my debts to the jews, who were then the only lenders of money."

Finding himself still frightenned for room, the founder applied to his royal master, Henry, who was graciously pleased to beftow certain lands in the manor at Selborne on the new priory of his favourite minister. These grounds had been the property of Stephen de Lucy; and, abutting upon the narrow limits of the convent, became a very commodious and agreeable acquisition. This grant, I find, was made on March the 9th, in the eighteenth year of Henry, viz. 1234, being two years after the foundation of the

* The custom of affixing dates to deeds was not become general in the reign of Henry III.
monastery. The royal donor bestowed his favour with a good grace, by adding to it almost every immunity and privilege that could have been specified in the law-language of the times.—

"Quare volumus prior, &c. habeant totam terram, &c. cum omnibus libertatibus in bosco et plano, in viis et semitis, pratis et pauciis; aquis et piscariis; infra burgum, et extra burgum, cum foka et faca, Thol et Them, Insangenethef et Utfangelethef, et hamfocne et blodwite, et pecunia que dari folet pro murdro et forstal, et flemenefrick, et cum quietancia, de omni fcotto et geldo, et de omnibus auxiliis regum, vicecomitum, et omn.; miniftralium fuorum; et hidagio et exercitibus, et scutagiis, et tallagiis, et thiris et hundredis, et placitis et querelis, et warda et wardpeny, et opibus caftellorum et pontium, et claufuris parcorum, et omni carcio et fumagio, et domor: regal: edlficatione, et omnimoda reparatione, et cum omnibus aliis libertatibus." This grant was made out by Richard bishop of Chickefler, then chancellor, at the town of Northampton, before the lord chief justiciary, who was the founder himself.

The charter of foundation of the Priory, dated 1233, comes next in order to be considered; but being of some length, I shall not interrupt my narrative by placing it here; and therefore refer the reader to the Appendix, No 1. This my copy, taken from the original, I have compared with Dugdall’s copy, and find that they perfectly agree; except that in the latter the preamble and the names of the witnesses are omitted. Yet I think it proper to quote a passage from this charter—"Et ipsa domus religiosa a cujuslibet alterius domus religiosae subjecfione libera permaneat, et in omnibus absoluta"—to shew how much Dugdall was mistaken when he inserted Selborne among the alien priories; forgetting that this disposition of the convent contradicted the grant that he had published.
published. In the *Monasticon Anglicanum*, in English, p. 119, is part of his catalogue of alien priories, suppressed in Henry V. viz. 1414, where may be seen as follows,

S.

Sele, Sussex.

SELEBURN.

Shirburn.

This appeared to me from the first to have been an oversight, before I had seen my authentic evidences. For priories alien, a few conventual ones excepted, were little better than granges to foreign abbeys; and their priors little more than bailiffs, removeable at will: whereas the priory of Selborne possessed the valuable estates and manors of Selborne, Aehangre, Norton, Brompden, Bashinges, Basingsloke, and Natele; and the prior challenged the right of Pillory, Thurcet, and Furcas, and every manerial privilege.

I find next a grant from Jo. de Venur, or Venuz, to the prior of Selborne—"de tota mora [a moor or bog] ubi Beme oritur, usque ad campum vivarii, et de prato voc. Sydenmeade cum abutt: et de cursu aque molendini." And also a grant in reversion "unius virgate terre," [a yard land] in Aehangre at the death of Richard Aedene his sister's husband, who had no child. He was to present a pair of gloves of one penny value to the prior and canons, to be given annually by the said Richard; and to quit all claim to the said lands in reversion, provided the prior and canons would engage annually to pay to the king, through the hands of his bailiffs of Aulton, ten shillings at four quarterly payments, "pro omnibus serviciis, consuetudinibus, exactionibus, et demandis."

This
This Jo. de Venur was a man of property at Oakhanger, and lived probably at the spot now called Chapel-farm. The grant bears date the 17th year of the reign of Henry III. [viz. 1233.]

It would be tedious to enumerate every little grant for lands or tenements that might be produced from my vouchers. I shall therefore pass over all such for the present, and conclude this letter with a remark that must strike every thinking person with some degree of wonder. No sooner had a monastic institution got a footing, but the neighbourhood began to be touched with a secret and religious awe. Every person round was desirous to promote so good a work; and either by sale, by grant, or by gift in reversion, was ambitious of appearing a benefactor. They who had not lands to spare gave roads to accommodate the infant foundation. The religious were not backward in keeping up this pious propensity, which they observed so readily influenced the breasts of men. Thus did the more opulent monasteries add house to house, and field to field; and by degrees manor to manor: till at last "there was no place left;" but every district around became appropriated to the purposes of their founders, and every precinct was drawn into the vortex.
Our forefathers in this village were no doubt as busy and bustling, and as important, as ourselves: yet have their names and transactions been forgotten from century to century, and have sunk into oblivion; nor has this happened only to the vulgar, but even to men remarkable and famous in their generation. I was led into this train of thinking by finding in my vouchers that Sir Adam Gurdon was an inhabitant of Selborne, and a man of the first rank and property in the parish. By Sir Adam Gurdon I would be understood to mean that leading and accomplished malecontent in the Mountfort faction, who distinguished himself by his daring conduct in the reign of Henry III. The first that we hear of this person in my papers is, that with two others he was bailiff of Alton before the sixteenth of Henry III. viz. about 1231, and then not knighted. Who Gurdon was, and whence he came, does not appear: yet there is reason to suspect that he was originally a mere soldier of fortune, who had raised himself by marrying women of property. The name of Gurdon does not seem to be known in the south; but there is a name so like it in an adjoining kingdom, and which belongs to two or three noble families, that it is probable this remarkable person was a North Briton; and the more so, since the Christian name of Adam is a distinguished one to this day among the family of the Gordons.—But, be this as it may, Sir Adam Gurdon has been noticed by all the writers of English history for his bold disposition and disaffected spirit,
spirit, in that he not only figured during the successful rebellion of Leicester, but kept up the war after the defeat and death of that baron's entrenching himself in the woods of Hampshire, towards the town of Farnham. After the battle of Evesham, in which Mountfort fell, in the year 1265, Gurdon might not think it safe to return to his house for fear of a surprize; but cautiously fortified himself amidst the forests and woodlands with which he was so well acquainted. Prince Edward, desirous of putting an end to the troubles which had so long harassed the kingdom, pursued the arch-rebel into his fastnesses; attacked his camp; leaped over the entrenchments; and, singling out Gurdon, ran him down, wounded him, and took him prisoner.

There is not perhaps in all history a more remarkable instance of command of temper, and magnanimity, than this before us: that a young prince, in the moment of victory, when he had the fell adversary of the crown and royal family at his mercy, should be able to withhold his hand from that vengeance which the vanquished so well deserved. A cowardly disposition would have been blinded by resentment: but this gallant heir-apparent saw at once a method of converting a most desperate foe into a lasting friend. He raised the fallen veteran from the ground, he pardoned him, he admitted him into his confidence, and introduced him to the queen, then lying at Guildford, that very evening. This unmerited and unexpected lenity melted the heart of the rugged Gurdon at once; he became in an instant a loyal and useful subject, trusted and employed in matters of moment by Edward when king, and confided in till the day of his death.

* M. Paris, p. 675. & Triveti Annals.
It has been hinted in a former letter that Sir Adam Gurdon had availed himself by marrying women of property. By my evidences it appears that he had three wives, and probably in the following order: Constantia, Ameria, and Agnes. The first of these ladies, who was the companion of his middle life, seems to have been a person of considerable fortune, which she inherited from Thomas Makerel, a gentleman of Selborne, who was either her father or uncle. The second, Ameria, calls herself the quondam wife of Sir Adam, "qua fui uxor," &c. and talks of her sons under age. Now Gurdon had no son: and beside Agnes in another document says, "Ego Agnes quondam uxor Domini Ade Gurdon in pura et ligea viduitate mea:" but Gurdon could not leave two widows; and therefore it seems probable that he had been divorced from Ameria, who afterwards married, and had sons. By Agnes Sir Adam had a daughter Johanna, who was his heiress, to whom Agnes in her life-time surrendered part of her jointure:—he had also a bastard son.

Sir Adam seems to have inhabited the house now called Temple, lying about two miles east of the church, which had been the property of Thomas Makerel.

In the year 1262 he petitioned the prior of Selborne in his own name, and that of his wife Constantia only, for leave to build him an oratory in his manor-house, "in curia sua." Licenses of this sort were frequently obtained by men of fortune and rank from the bishop of the diocese, the archbishop, and sometimes, as I have seen
seen instances, from the pope; not only for convenience-fake, and on account of distance, and the badness of the roads, but as a matter of state and distinction. Why the owner should apply to the prior, in preference to the bishop of the diocese, and how the former became competent to such a grant, I cannot say; but that the priors of Selborne did take that privilege is plain, because some years afterward, in 1280, Prior Richard granted to Henry Waterford and his wife Nicholas a license to build an oratory in their courthouse, "curia sua de Waterford," in which they might celebrate divine service, saving the rights of the mother church of Basnyges. Yet all the while the prior of Selborne grants with such reserve and caution, as if in doubt of his power, and leaves Gurdon and his lady answerable in future to the bishop, or his ordinary, or to the vicar for the time being, in case they should infringe the rights of the mother church of Selborne.

The manor-house called Temple is at present a single building, running in length from south to north, and has been occupied as a common farm house from time immemorial. The south end is modern, and consists of a brew-house, and then a kitchen. The middle part is an hall twenty-seven feet in length, and nineteen feet in breadth; and has been formerly open to the top; but there is now a floor above it, and also a chimney in the western wall. The roofing consists of strong massive rafter-work ornamented with carved roses. I have often looked for the lamb and flag, the arms of the knights templars, without success; but in one corner found a fox with a goose on his back, so coarsely executed, that it required some attention to make out the device.

Beyond the hall to the north is a small parlour with a vast heavy stone chimney-piece; and, at the end of all, the chapel or oratory, whose massive thick walls and narrow windows at once bespeak
great antiquity. This room is only sixteen feet by sixteen feet eight inches; and full seventeen feet nine inches in height. The ceiling is formed of vast joists, placed only five or six inches apart. Modern delicacy would not much approve of such a place of worship: for it has at present much more the appearance of a dungeon than of a room, fit for the reception of people of condition. For the outside I refer the reader to the plate, in which Mr. Grimur has represented it with his usual accuracy. The field on which this oratory abuts is still called Chapel-field. The situation of this house is very particular, for it stands upon the immediate verge of a steep abrupt hill.

Not many years since this place was used for an hop-kiln, and was divided into two stories by a loft, part of which remains at present, and makes it convenient for peat and turf, with which it is flowed.
THE Priory at times was much obliged to Gurdon and his family. As Sir Adam began to advance in years he found his mind influenced by the prevailing opinion of the reaasonableness and efficacy of prayers for the dead; and, therefore, in conjunction with his wife Constantia, in the year 1271, granted to the prior and convent of Selborne all his right and claim to a certain place, placea, called La Pleystow, in the village aforesaid, "in liberam, puram, et per-
petuam elemosinan." This Pleystow b, locus ludorum, or play-place, is a level area near the church of about forty-four yards by thirty-six, and is known now by the name of the Plestor c.

It continues still, as it was in old times, to be the scene of recreation for the youths and children of the neighbourhood; and impresses an idea on the mind that this village, even in Saxon times, could not be the most abject of places, when the inhabitants thought proper to assign so spacious a spot for the sports and amusements of its young people d.

b In Saxon Pleystrop, or Pleystrop; viz. Plégstow, or Plegstow.

c At this juncture probably the vast oak, mentioned p. 5, was planted by the prior, as an ornament to his new acquired market place. According to this supposition the oak was aged 432 years when blown down.

d For more circumstances respecting the Plestor, see Letter II. to Mr. Pennant.
As soon as the prior became possessed of this piece of ground, he procured a charter for a market from king Henry III. and began to erect houses and stalls, "feldas," around it. From this period Selborne became a market town: but how long it enjoyed that privilege does not appear. At the same time Gurdon referred to himself, and his heirs, a way through the said Plefior to a tenement and some crofts at the upper end, abutting on the south corner of the church-yard. This was, in old days, the manorial house of the street manor, though now a poor cottage; and is known at present by the modern name of Elliot's. Sir Adam also did, for the health of his own soul, and that of his wife Constantia, their predecessors and successors, grant to the prior and canons quiet possession of all the tenements and gardens, "curtilagia," which they had built and laid out on the lands in Selborne, on which he and his vassals, "homines," had undoubted right of common: and moreover did grant to the convent the full privilege of that right of common: and empowered the religious to build tenements and make gardens along the king's highway in the village of Selborne.

From circumstances put together it appears that the above were the first grants obtained by the Priory in the village of Selborne, after it had subsisted about thirty-nine years: moreover they explain the nature of the mixed manor still remaining in and about the village, where one field or tenement shall belong to Magdalen-

* Bihop Tanner, in his NotitiaMonastica, has made a mistake respecting the market and fair at Selborne: for in his references to Dodsworth, cart. 54 Hen. III. m. 3. he says, "De mercatu, et feria de Seleburn." But this reference is wrong; for, instead of Seleburn, it proves that the place there meant was Lekeborne, or Legeborne, in the county of Lincoln. This error was copied from the index of the Cat. MSS. Angl. It does not appear that there ever was a chartered fair at Selborne. For several particulars respecting the present fair at Selborne see Letter XXVI. of these Antiquities.
college in the university of Oxford, and the next to Norton Powlet, esq. of Rotherfield house; and so down the whole street. The case was, that the whole was once the property of Gurdon, till he made his grants to the convent; since which some belongs to the successors of Gurdon in the manor, and some to the college; and this is the occasion of the strange jumble of property. It is remarkable that the tenement and crofts which Sir Adam reserved at the time of granting the Pleitor should still remain a part of the Gurdon-manor, though so desirable an addition to the vicarage that is not as yet possessed of one inch of glebe at home: but of late, viz. in January 1785, Magdalen-college purchased that little estate, which is life-holding, in reversion, for the generous purpose of bestowing it, and it's lands, being twelve acres (three of which abut on the church-yard and vicarage-garden) as an improvement hereafter to the living, and an eligible advantage to future incumbents.

The year after Gurdon had bestowed the Pleitor on the Priory, viz. in 1272, Henry III. king of England died, and was succeeded by his son Edward. This magnanimous prince continued his regard for Sir Adam, whom he esteemed as a brave man, and made him warden, "custos," of the forest of Wolmer. Though little emolumen

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1 Since the letters respecting Wolmer-forest and Ayles-bolt, from p. 14 to 26, were printed, the author has been favoured with the following extracts:

In the "Act of Resumption, 1 Hen. VII." it was provided, that it be not prejudicial to "Harry at Lode, ranger of our forest of Wolmere, to him by our letters patents before tyme gevy." Rolls of Parl. Vol. VI. p. 370.

In the 11 Hen. VII. 1495—"Warham [Wardleham] and the office of forest [forester] of Wolmere" were held by Edmund duke of Suffolk.—Rolls, ib. 474.

Act of general pardon, 14 Hen. VIII. 1523, not to extend to "Rich. Bp. of Wyntow [bishop Fox] for any seizure or forfeiture of liberties, &c. within the forest of Wolmer, Y y z " Aylesbolt,
lument might hang to this appointment, yet are there reasons why it might be highly acceptable; and, in a few reigns after, it was given to princes of the blood.

In old days gentry resided more at home on their estates, and, having fewer resources of elegant in-door amusement, spent most of their leisure hours in the field.

"Alyholt, and Neve Foreft; nor to any person for waste, &c. within the manor of Wardlam, or parish of Wardlam [Wardleham]; nor to abusing, &c. of any office or use, within the said forests of Wolmer or Alyholt, or the said park of Wardlam."—County Subt'.

To these may be added some other particulars, taken from a book lately published, entitled "An Account of all the Manors, Messuages, Lands, &c. in the different Counties of England and Wales, held by Lease from the Crown; as contained in the Report of the Commissioners appointed to inquire into the State and Condition of the Royal Forests," &c.—London, 1787.

"Southampton."

£. s. d.

P. 64, "A fee-farm rent of 31 2 11 out of the manors of East and West Wardleham; and also the office of lieutenant or keeper of the forest or chase of Alicebolt and Wolmer, with all offices, fees, commodities, and privileges thereto belonging.

"Names of lessees, William earl of Dartmouth and others (in trust.)" "Date of the last lease, March 23, 1780; granted for such term as would fill up the subsisting term to 31 years, "Expiration March 23, 1811."

"Appendix, No. III."

"Southampton."

"Hundreds—Selborne and Finchdeane."

"Honours and manors, &c.

"Alicebolt forest, three parks there.

"Bensted and Kingste; a petition of the parishioners concerning the three parks in Alicebolt forest."

William, first earl of Dartmouth, and paternal grandfather to the present lord Stawel, was a lessee of the forests of Alicebolt and Wolmer before brigadier-general Emanuel Scroope.

See Letter II. of these Antiquities, and
OF SELBORNE.

and the pleasures of the chase. A large domain, therefore, at little more than a mile distance, and well stocked with game, must have been a very eligible acquisition, affording him influence as well as entertainment; and especially as the manorial house of Temple, by its exalted situation, could command a view of near two-thirds of the forest.

That Gurdon, who had lived some years the life of an outlaw, and at the head of an army of insurgents, was, for a considerable time, in high rebellion against his sovereign, should have been guilty of some outrages, and should have committed some deprivations, is by no means matter of wonder. Accordingly we find a distringas against him, ordering him to restore to the bishop of Winchester some of the temporalities of that see, which he had taken by violence and detained; viz. some lands in Hocheleye, and a mill. By a breve, or writ, from the king he is also enjoined to readmit the bishop of Winchester, and his tenants of the parish and town of Farnham, to pasture their horses, and other larger cattle, "averia," in the forest of Wolmer, as had been the usage from time immemorial. This writ is dated in the tenth year of the reign of Edward, viz. 1282.

All the king's writs directed to Gurdon are addressed in the following manner: "Edwardus, Dei gratia, &c. dilecto et fidei " suo Ade Gurdon salutem;" and again, " Cuftodi foerete fue de " Wolvemere."

In the year 1293 a quarrel between the crews of an English and a Norman ship, about some trifle, brought on by degrees such serious consequences, that in 1295 a war broke out between the

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Hochley, now spelt Hawkley, is in the hundred of Selborne, and has a mill at this day.
two nations. The French king, Philip the Hardy, gained some advantages in Gafcony; and, not content with those, threatened England with an invasion, and, by a sudden attempt, took and burnt Dover.

Upon this emergency Edward sent a writ to Gurdon, ordering him and four others to enlist three thousand soldiers in the counties of Surrey, Dorset, and Wiltshire, able-bodied men, "tam fagittare quam baliflare potentes;" and to see that they were marched, by the feast of All Saints, to Winchelsea, there to be embarked aboard the king's transports.

The occasion of this armament appears also from a summons to the bishop of Winchelsey to parliament, part of which I shall transcribe on account of the inolent menace which is said therein to have been denounced against the English language:—"qualiter rex Franciæ de terra nostra Gafcon nos fraudulenter et cautelofe decepit, eam nobis nequiter detinendo . . . vero predictis "fraude et nequitia non contentus, ad expugnationem regni "noster claffe maxima et bellatorum copiosa multitudine congrue-"gatis, cum quibus regnum nostrum et regni ejusdem incolas "hostiliter jam invasurus, linguam Anglicam, si concepte iniquitatis "proposito detestabili potestas corrupienda, quod Deus avertat, "omnia de terra delere proponit." Dated 30th September, in the year of king Edward's reign xxiii 1.

The above are the last traces that I can discover of Gurdon's appearing and acting in public. The first notice that my evidences give of him is, that, in 1232, being the 16th of Henry III. he was the king's bailiff, with others, for the town of Alton. Now,

1 Reg. Wynton, Stratford, but query Stratford; for Stratford was not bishop of Winton till 1223, near thirty years afterwards.
from 1232 to 1295 is a space of sixty-three years; a long period for one man to be employed in active life! Should any one doubt whether all these particulars can relate to one and the same person, I should with him to attend to the following reasons why they might. In the first place, the documents from the priory mention but one Sir Adam Gurdon, who had no son lawfully begotten: and in the next, we are to recollect that he must have probably been a man of uncommon vigour both of mind and body; since no one, unsupported by such accomplishments, could have engaged in such adventures, or could have borne up against the difficulties which he sometimes must have encountered: and, moreover, we have modern instances of persons that have maintained their abilities for near that period.

Were we to suppose Gurdon to be only twenty years of age in 1232, in 1295 he would be eighty-three; after which advanced period it could not be expected that he should live long. From the silence, therefore, of my evidences it seems probable that this extraordinary person finished his life in peace, not long after, at his mansion of Temple. Gurdon’s seal had for its device—a man, with a helmet on his head, drawing a cross-bow; the legend, “Sigillum Ade de Gurdon;” his arms were, “Goulis, “iii floures argent issant de testes de leopards.”

If the stout and unsubmitting spirit of Gurdon could be so much influenced by the belief and superstition of the times, much more might the hearts of his ladies and daughter. And accordingly we find that Ameria, by the consent and advice of her sons, though said to be all under age, makes a grant for ever of some lands

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k From the collection of Thomas Martin, Esq. in the Antiquarian Repertory, p. 109, No. XXXI.
down by the stream at Durton; and also of her right of the common of Durton itself 1. Johanna, the daughter and heires of Sir Adam, was married, I find, to Richard Acherd; she also grants to the prior and convent lands and tenements in the village of Selborne, which her father obtained from Thomas Makerel; and also all her goods and chattels in Selborne for the consideration of two hundred pounds sterling. This last business was transacted in the first year of Edward II. viz. 1307. It has been observed before that Gurdon had a natural son: this person was called by the name of John Daflard, alias Waslard, but more probably Baflard; since bastardy in those days was not esteemed any disgrace, though daftardy was esteemed the greatest. He was married to Gunnorie Duncun; and had a tenement and some land granted him in Selborne by his sister Johanna.

1 Durton, now called Dorton, is still a common for the copyholders of Selborne manor.
LETTER XI.

The Knights Templars, who have been mentioned in a former letter, had considerable property in Selborne; and also a preceptory at Sudington, now called Southington, a hamlet lying one mile to the

The Military Orders of the Religious.

m The Knights Hospitalars of St. John of Jerusalem, afterwards called Knights of Rhodes, now of Malta, came into England about the year 1100. 1 Hen. I.

The Knights Templars came into England pretty early in Stephen's reign, which commenced 1135. The order was dissolved in 1312, and their estates given by act of Parliament to the Hospitalars in 1323. (all in Edw. II.) though many of their estates were never actually enjoyed by the said Hospitalars. Vid. Tanner, p. xxiv. x.

The commandries of the Hospitalars, and preceptories of Templars, were each subordinate to the principal house of their respective religion in London. Although these are the different denominations, which Tanner at p. xxviii. assigns to the cells of these different orders, yet throughout the work very frequent instances occur of preceptories attributed to the Hospitalars; and if in some passages of Notitia Monast. commandries are attributed to the Templars, it is only where the place afterwards became the property of the Hospitalars, and so is there indifferently styled preceptory or commandry; see p. 243, 263, 276, 577, 678. But, to account for the first observed inaccuracy, it is probable the preceptories of the Templars, when given to the Hospitalars, were still vulgarly, however, called by their old name of preceptories; whereas in propriety the societies of the Hospitalars were indeed (as has been said) commandries. And such deviation from the strictness of expression in this case might occasion those societies of Hospitalars also to be indifferently called preceptories, which had originally been vested in them, having never belonged to the Templars at all.—See in Archer, p. 609. Tanner, p. 300. col. 1. 720. note e.
the east of the village. Bishop Tanner mentions only two such houses of the Templars in all the county of Southampton, viz. Godef-field, founded by Henry de Blois, bishop of Winchester, and South Badeley, a preceptory of the Knights Templars, and afterwards of St. John of Jerusalem, valued at one hundred and eighteen pounds sixteen shillings and seven pence per annum. Here then was a preceptory unnoticed by antiquaries, between the village and Temple. Whatever the edifice of the preceptory might have been, it has long since been dilapidated; and the whole hamlet contains now only one mean farm-house, though there were two in the memory of man.

It has been usual for the religious of different orders to fall into great diffensions, and especially when they were near neighbours. Instances of this sort we have heard of between the monks of

It is observable that the very statute for the dissolution of the Hospitallars holds the same language; for there, in the enumeration of particulars, occur "commandries, preceptories." Codex, p. 1190. Now this intercommunity of names, and that in an act of parliament too, made some of our ablest antiquaries look upon a preceptory and commandry as strictly synonymous; accordingly we find Camden, in his Britannia, explaining preceptoria in the text by a commandry in the margin, p. 356. 512.

J. L.

Commandry, a manor or chief messuage with lands, &c. belonging to the priory of St. John of Jerusalem; and he who had the government of such house was called the commander, who could not dispose of it but to the use of the priory, only taking thence his own sustenance, according to his degree, who was usually a brother of the same priory. Corvell. He adds (confounding these with preceptories) they are in many places termed Temples, as Temple Burre in Lincolnshire, &c. Preceptories were possessed by the more eminent of Templars, whom the chief master created and called Preceptores Templi. Corvell, who refers to Stephens de Jurifd. lib. 4. c. 10. num. 27.


pli in Angl. ht emendafæ panis, & suis [cerevisias] in Sedlington, & nescint qo. var. et


Canterbury;
OF SELBORNE.

Canterbury; and again between the old abbey of St. Swithun, and the comparatively newminster of Hyde in the city of Winchester*.

These feuds arose probably from different orders being crowded within the narrow limits of a city, or garrison-town, where every inch of ground was precious, and an object of contention. But with us, as far as my evidences extend, and while Robert Saunford was master⁰, and Richard Carpenter was preceptor, the Templars and the Priors lived in an intercourse of mutual good offices.

My papers mention three transactions, the exact time of which cannot be ascertained, because they fell out before dates were

Nolitia Monastica, p. 155.

* "Winchester, Newminster. King Alfred founded here first only a house and chapel for the learned monk Grimball, whom he had brought out of Flanders; but after-wards projected, and by his will ordered, a noble church or religious house to be built in the cemetery on the north side of the old minster or cathedral; and designed that Grimball should preside over it. This was begun A.D. 901, and finished to the honour of the Holy Trinity, Virgin Mary, and St. Peter, by his son king Edward, who placed therein secular canons: but A.D. 963 they were expelled, and an abbot and monks put in possession by bishop Ethelwald.

"Now the churches and habitations of these two societies being so very near together, the differences which were occasioned by their singing, bells, and other matters, arose to so great a height, that the religious of the new monastery thought fit, about A.D. 1119, to remove to a better and more quiet situation without the walls, on the north part of the city called Hyde, where king Henry I. at the instance of Will. Gifford, bishop of Winton, founded a stately abbey for them. St. Peter was generally accounted patron; though it is sometimes called the monastery of St. Grimball, and sometimes of St. Barnabas," &c.

Note. A few years since a county bridewell, or house of correction, has been built on the immediate site of Hede Abbey. In digging up the old foundations the workmen found the head of a crosher in good preservation.

⁰ Robert Saunforde was master of the Temple in 1241; Guido de Forfija was the next in 1292. The former is fifth in a list of the masters in a Ms. Bib. Cotton. Nero. E.VI.

Z Z Z usually
usually inserted; though probably they happened about the middle of the thirteenth century, not long after Saunford became master. The first of these is that the Templars shall pay to the priory of Selborne, annually, the sum of ten shillings at two half yearly payments from their chamber, “camera,” at Sudington, “per manum ‘preceptoris, vel balivii nostri, qui pro tempore fuerit ibidem,” till they can provide the prior and canons with an equivalent in lands or rents within four or five miles of the said convent. It is also further agreed that, if the Templars shall be in arrears for one year, that then the prior shall be empowered to distress upon their live stock in Bradefeth. The next matter was a grant from Robert de Saunford to the priory for ever, of a good and sufficient road, “cheminum,” capable of admitting carriages, and proper for the drift of their larger cattle, from the way which extends from Sudington towards Blakemere, on to the lands which the convent possesses in Bradefeth.

The third transaction (though for want of dates we cannot say which happened first and which last) was a grant from Robert Saunford to the priory of a tenement and its appurtenances in the village of Selborne, given to the Templars by Americus de Vasci. This property, by the manner of describing it,—“totum tenementum cum omnibus pertinentiis suis, sicilicet in terris, & ‘lominibus, in pratis & pasuis, & nemoribus,” &c. seems to have been no inconsiderable purchase, and was sold for two hundred marks sterling, to be applied for the buying of more land for the support of the holy war.

p Americus Vasci, by his name, must have been an Italian, and had been probably a soldier of fortune, and one of Gurdon’s captains. Americus Vesricio, the person who gave name to the new world, was a Florentine.
Prior John is mentioned as the person to whom Vaisi's land is conveyed. But in Willis's list there is no prior John till 1339, several years after the dissolution of the order of the Templars in 1312; so that unless Willis is wrong, and has omitted a prior John since 1262, (that being the date of his first prior) these transactions must have fallen out before that date.

I find not the least traces of any concerns between Gurdon and the Knights Templars; but probably after his death his daughter Johanna might have, and might bestow, Temple on that order in support of the holy land: and, moreover, she seems to have been moving from Selborne when she sold her goods and chattels to the priory, as mentioned above.

Temple no doubt did belong to the knights, as may be asserted, not only from its name, but also from another corroborating circumstance of it's being still a manor tithe-free; "for, by virtue " of their order," says Dr. Blackstone, "the lands of the Knights " Templars were privileged by the pope with a discharge from " tithes."

Antiquaries have been much puzzled about the terms preceptores and preceptorium, not being able to determine what officer or edifice was meant. But perhaps all the while the passage quoted above from one of my papers " per manum preceptoris vel balliced " nostri, qui pro tempore fuerit ibidem," may help to explain the difficulty. For if it be allowed here that preceptor and balliceus are synonymous words, then the brother who took on him that office resided in the house of the Templars at Sudington, a preceptory; where he was their preceptor, superintended their affairs, received their money; and, as in the instance there mentioned, paid from their chamber, "camera," as directed: so that, according to this explanation,
explanation, a *preceptor* was no other than a steward, and a *preceptorium* was his residence. I am well aware that, according to strict Latin, the *vel* should have been *seu* or *five*, and the order of the words "*preceptoris nostri, vel ballivi, qui*"—*et "ibidem*" should have been *ibi*; *ibidem* necessarily having reference to *two* or more persons: but it will hardly be thought fair to apply the niceties of classic rules to the Latinity of the thirteenth century, the writers of which seem to have aimed at nothing farther than to render themselves intelligible.

There is another remark that we have made, which, I think, corroborates what has been advanced; and that is, that *Richard Carpenter, preceptor of Sudington*, at the time of the transactions between the Templars and Selborne Priory, did always sign last as a witness in the three deeds: he calls himself *frater*, it is true, among many other brothers, but subscribes with a kind of deference, as if, for the time being, his *office* rendered him an inferior in the community.

In two or three ancient records relating to St. Osivald’s hospital in the city of Worcester, printed by Dr. *Nash*, p. 227 and 228, of his collections for the history of Worcestershire, the words *preceptorium* and *preceptoria* signify the *mastership* of the said hospital: "*ad preceptorium five magisterium presentavit—preceptorii five magisterii patro-" *nus. Vacavit dicta preceptoria seu magisterium—ad preceptorium et regimen diēi* "*hospitallis—Te preceptorem five magistrum prefecimus.*"

Where *preceptorium* denotes a building or apartment it may probably mean the master’s lodgings, or at least the *preceptor’s* apartment, whatsoever may have been the office or employment of the said preceptor.

A *preceptor* is mentioned in Throckmorton’s *Ducatus Leodium*, or History of Leeds, p. 225, and a deed witnessed by the *preceptor* and chaplain before dates were inflected. *Du Fresne’s Supplement*: "*Preceptoriae, pradia preceptoribus assignata.*"—*Cowce*, in his Law Dictionary, enumerates sixteen *preceptoria*, or *preceptories*, in England; but Sudington is not among them.—It is remarkable that Gurtius, in his *Historia Templariorum Amstel. 1691*, never once mentions the words *preceptor* or *preceptorium.*
LETTER XII.

The ladies and daughter of Sir Adam Gurdon were not the only benefactresses to the Priory of Selborne; for, in the year 1281, Ela Longpee obtained masses to be performed for her soul's health; and the prior entered into an engagement that one of the convent should every day say a special mass for ever for the said benefactresses, whether living or dead. She also engaged within five years to pay to the said convent one hundred marks of silver for the support of a chantry and chantry-chaplain, who should perform his masses daily in the parish church of Selborne 1. In the east end of the south aisle there are two sharp-pointed gothic niches; one of these probably was the place under which these masses were performed; and there is the more reason to suppose as much, because, till within these thirty years, this space was fenced off with gothic wooden railing, and was known by the name of the south chancel 2.

The solicitude expressed by the donor plainly shews her piety and firm persuasion of the efficacy of prayers for the dead; for

1 A chantry was a chapel joined to some cathedral or parish church, and endowed with annual revenues for the maintenance of one or more priests to sing masses daily for the soul of the founder, and others.

2 For what is said more respecting this chantry see Letter III. of these Antiquities.---Mention is made of a Nicholas Langris, capellanus de Selborne, in the time of Henry VIII. Was he chantry-chaplain to Ela Longpee, whose masses were probably continued to the time of the reformation? More will be said of this person hereafter.
she seems to have made every provision for the payment of the
sum stipulated within the appointed time; and to have felt much
anxiety lest her death, or the neglect of her executors or assignes,
might frustrate her intentions.—“Et si contingat me in solucione
"predicte pecunie annis predicatis in parte aut in toto deficere,
“quod absit; concedo et obligo pro me et assignatis meis, quod
"Vice-Comes - - - Oxon et - - - qui pro tempore fuerint, per omnes
“terras et tenementa, et omnia bona mea mobilia et immobilia
“ubicunque in balliva sua fuerint inventa ad solucionem predicatam
“faciendam poiffent nos compellere.” And again—“Et si con-
“tingat dictos religiosos labores feu expensas facere circa pre-
dictam pecuniam, feu circa partem dictae pecunie; volo quod
“dictorum religiosorum impense et labores levantur ita quod pre-
dicto priori vel uni canonicoorumorum superhiis simplici
“verbo credatur fine alterius honore probacionis; et quod utrique
“predictorum virorum in unam marcam argenti pro cujuslibet
“disfrincionce super me facienda tenear. — Dat. apud Wareborn die
“sabati proxima ante feftum St. Marci evangelfte, anno regni regis
“Edwardi tertio decimo t.”

But the reader perhaps would wish to be better informed respecting
this benefactres, of whom as yet he has heard no particulars.

The Ela Longfpee therefore above-mentioned was a lady of high
birth and rank, and became countess to Thomas de Newburgh, the
sixth earl of Warwick: she was the second daughter of the famous
Ela Longfpee countess of Salisbury, by William Longfpee, natural son
of king Henry II. by Rosamond.

* Ancient deeds are often dated on a Sunday, having been executed in churches
and church-yards for the sake of notoriety, and for the convenience of procuring several
witnesses to attest.
Our lady, following the steps of her illustrious mother, "was a great benefactress to the university of Oxford, to the canons of Ofeney, the nuns of Godstow, and other religious houses in Oxfordshire. She died very aged in the year 1300, and was buried before the high altar in the abbey church of Ofeney, at the head of the tomb of Henry D'Oily, under a flat marble, on which was inlaid her portraiture, in the habit of a vowess, engraved on a copper-plate." — Edmondson's History and Genealogical Account of the Grevilles, p. 23.

Ela Longebere, countess of Salisbury, in 1232 founded a monastery at Lacock, in the county of Wilts, and also another at Hendon, in the county of Somerset, in her widowhood, to the honour of the Blessed Virgin and St. Bernard. — Camden.

Thus she survived the foundation of her chantry at Selborne fifteen years. About this lady and her mother consult Dugdale's Baronage, I. 72, 175, 177. — Dugdale's Warwickshire, I. 383. — Leland's Itin. II. 45.
Letter XIII.

The reader is here presented with five forms respecting the choosing of a prior; but as they are of some length they must be reserved for the Appendix; their titles are No. 108. "Charta " petens licentiam elegendi prelatum a Domino episcopo Wintoni-" enfi:"—" Forma licentie concedi :"—" Forma decreti post " electionem conficiendi:"—108. " Modus procedendi ad elec-" tionem per formam scrutinii:"—et " Forma ričte presentandi " elecčum." Such evidences are rare and curious, and throw great light upon the general monasřic-ecclesiasřical history of this kingdom, not yet sufficiently understood.

In the year 1324 there was an election for a prior at Selborne; when some difficulties occurring, and a devolution taking place, application was made to Stratford, who was bishop of Winchester at that time, and of course the visitor and patron of the convent at the spot above-mentioned.


P. 4. "Commissio facta sub-priori de Selbourne" by the bishop enjoining him to preserve the discipline of the order in the convent during the vacancy made by the late death of the prior,

1 Stratford was bishop of Winchester from 1323 to 1333, when he was translated to Canterbury.
OF SELBORNE.

("nuper pastoris folatio deftituta,"') dated 4th. kal. Maii. ann. 2do. sc. of his consecration. [sc. 1324.]

P. 6. "Custodia Prioratus de Seleburne vacantis," committed by the bishop to Nicholas de la - - -, a layman, it belonging to the bishop "ratione vacationis ejusdem," in July 1324, ibid. "negotium electionis de Selebourne. Acta coram Johanne Episcopo, &c. "1324 in negotio electionis de fratre Waltero de Insula concanonico "prioratus de Selebourne," lately elected by the sub-prior and convent, by way of scrutiny: that it appeared to the bishop, by certificate from the dean of Alton, that solemn citation and proclamation had been made in the church of the convent where the election was held that any who opposed the said election or elected should appear.—Some difficulties were started, which the bishop over-ruled, and confirmed the election, and admitted the new prior subsaeforma:—

"In Dei nomine Amen. Ego Johannes permissione divina, &c. "te Waltherum de Insula ecclesie de Selebourne nostrre dioceseos "nostrique patronatus vacantis, canonicum et cantorem, virum "utique providum, et discretum, literatum scientia preditum, "vita moribus et conversatione merito commendatum, in ordine "facerdotali et etate legitima constitutum, de legitimo matrimonio "procreatum, in ordine et religione Sancti Augustini de Selebourne "expresso professum, in spiritualibus et temporalibus circumspectum, "jure nobis hac vice devoluto in hac parte, in diece ecclesie "de Selebourne perfectum priorem; curam et administrationem "ejusdem tibi in spiritualibus et temporalibus committentes. Dat. "apud Selebourne XIII kalend. Augusti anno supradicho."
There follows an order to the sub-prior and convent pro
obedientia:
A mandate to Nicholas above-named to release the Priory to
the new prior:
A mandate for the induction of the new prior.

LETTER XIV.

"In the year 1373 Wykelam, bishop of Wincheste, held a visitation
of his whole diocese; not only of the secular clergy through
the several deaneries, but also of the monasteries, and religious
houses of all sorts, which he visited in person. The next year
he sent his commissioners with power to correct and reform the
several irregularities and abuses which he had discovered in the
course of his visitation.

Some years afterward, the bishop having visited three several
times all the religious houses throughout his diocese, and being
well informed of the state and condition of each, and of the
particular abuses which required correction and reformation,
besides the orders which he had already given, and the remedies
which he had occasionally applied by his commissioners, now
issued his injunctions to each of them. They were accommo-
dated to their several exigencies, and intended to correct the
abuses introduced, and to recall them all to a strict observation
"of
OF SELBORNE.

"of the rules of their respective orders. Many of these injunctions are still extant, and are evident monuments of the care and attention with which he discharged this part of his episcopal duty."

Some of these injunctions I shall here produce; and they are such as will not fail, I think, to give satisfaction to the antiquary, both as never having been published before, and as they are a curious picture of monastic irregularities at that time.

The documents that I allude to are contained in the Notabilis Visitatio de Seleburne, held at the Priory of that place, by Wykeham in person, in the year 1387.

This evidence, in the original, is written on two skins of parchment; the one large, and the other smaller, and consists of a preamble, 36 items, and a conclusion, which altogether evince the patient investigation of the visitor, for which he had always been so remarkable in all matters of moment, and how much he had at heart the regularity of those institutions, of whose efficacy in their prayers for the dead he was so firmly persuaded. As the bishop was so much in earnest, we may be assured that he had nothing in view but to correct and reform what he found amiss; and was under no bias to blacken, or misrepresent, as the commissioners of Thomas Lord Cromwell seem in part to have done at the time of the reformation. We may therefore with reason suppose that the bishop gives us an exact delineation of the morals and manners of the canons of Selborne at that juncture; and that what he found they had omitted he enjoins them; and for what they have done amiss, and contrary to their rules and

2 See Lovell's Life of Wykeham.

a Letters of this sort from Dr. Layton to Thomas Lord Cromwell are still extant.
statutes, he reproves them; and threatens them with punishment suitable to their irregularities.

This visitatio is of considerable length, and cannot be introduced into the body of this work; we shall therefore refer the reader to the Appendix, where he will find every particular, while we shall take some notice, and make some remarks, on the most singular items as they occur.

In the preamble the visitor says—"Considering the charge "lying upon us, that your blood may not be required at our "hands, we came down to visit your Priory, as our office re-"quired; and every time we repeated our visitation we found "something still not only contrary to regular rules but also re-"pugnant to religion and good reputation."

In the first article after the preamble—"he commands them "on their obedience, and on pain of the greater excommunication, "to see that the canonical hours by night and by day be sung in "their choir, and the masses of the Blessed Mary, and other "accustomed masses, be celebrated at the proper hours with devo-"tion, and at moderate pauses; and that it be not allowed to "any to absent themselves from the hours and masses, or to "withdraw before they are finished."

Item 2d. He enjoins them to observe that silence to which they are so strictly bound by the rule of Saint Augustine at stated times, and wholly to abstain from frivolous conversation.

Item 4th. "Not to permit such frequent passing of secular "people of both sexes through their convent, as if a thorough-"fare, from whence many disorders may and have arisen."

Item 5th. "To take care that the doors of their church and "Priory be so attended to that no suspected and disorderly "females, 'suspectae et aliae inhonestae,' pass through their choir "and
OF SELBORNE.

"and cloister in the dark;" and to see that the doors of their
church between the nave and the choir, and the gates of their
cloister opening into the fields, be constantly kept shut until
their first choir-service is over in the morning, at dinner time, and
when they meet at their evening collation b.

Item 6th mentions that several of the canons are found to be
very ignorant and illiterate, and enjoins the prior to see that they
be better instructed by a proper master.

Item 8th. The canons are here accused of refusing to accept of
their statutable clothing year by year, and of demanding a certain
specified sum of money, as if it were their annual rent and due.
This the bishop forbids, and orders that the canons shall be clothed
out of the revenue of the Priory, and the old garments be laid by
in a chamber and given to the poor, according to the rule of
Saint Augustine.

In Item 9th is a complaint that some of the canons are given to
wander out of the precincts of the convent without leave; and
that others ride to their manors and farms, under pretence of in-
specting the concerns of the society, when they please, and stay as
long as they please. But they are enjoined never to stir either
about their own private concerns or the business of the convent
without leave from the prior: and no canon is to go alone, but to
have a grave brother to accompany him.

The injunction in Item 10th, at this distance of time, appears
rather ludicrous; but the visitor seems to be very serious on the
occasion, and says that it has been evidently proved to him that
some of the canons, living dissolutely after the flesh, and not
after the spirit, sleep naked in their beds without their breeches

b A collation was a meal or repast on a fast day in lieu of a supper.
A N T I Q U I T I E S.

and shirts, "abique femoralibus et camisiis." He enjoinsthat these culprits shall be punished by severe fasting, especially if they shall be found to be faulty a third time; and threatens the prior and sub-prior with suspension if they do not correct this enormity.

In Item 11th the good bishop is very wroth with some of the canons, whom he finds to be professed hunters and sportmen, keeping hounds, and publicly attending hunting-matches. These pursuits, he says, occasion much dissipation, danger to the soul and body, and frequent expense; he, therefore, wishing to extirpate this vice wholly from the convent, "radicibus extirpare," does absolutely enjoin the canons never intentionally to be present at any public noisy tumultuous huntings; or to keep any hounds, by themselves or by others, openly or by stealth, within the convent, or without.

In Item 12th he forbids the canons in office to make their business a plea for not attending the service of the choir; since by these means either divine worship is neglected or their brother-canons are over-burdened.

By Item 14th we are informed that the original number of canons at the Priory of Selborne was fourteen; but that at this visitation they were found to be let down to eleven. The visitor therefore strongly

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c The rule alluded to in Item 10th, of not sleeping naked, was enjoined the Knights Templars, who also were subject to the rules of St. Augustine.

See Gurtleri Hist. Templariorum.

4 Considering the strong propensity in human nature towards the pleasures of the chase, it is not to be wondered that the canons of Selborne should languish after hunting, when, from their situation so near the precincts of Walmer-foreste, the king's hounds must have been often in hearing, and sometimes in sight from their windows.—If the bishop was so offended at these sporting canons, what would he have said to our modern fox-hunting divines?

and
OF SELBORNE.

and earnestly enjoins them that, with all due speed and diligence, they should proceed to the election of proper persons to fill up the vacancies, under pain of the greater excommunication.

In Item 17th. the prior and canons are accused of suffering, through neglect, notorious dilapidations to take place among their manorial houses and tenements, and in the walls and enclosures of the convent itself, to the shame and scandal of the institution; they are therefore enjoined, under pain of suspension, to repair all defects within the space of six months.

Item 18th. charges them with grievously burthening the said Priory by means of sales, and grants of liveries and corrodies.

The bishop, in Item 19th, accuses the canons of neglect and omission with respect to their perpetual chantry-services.

Item 20th. The visitor here conjures the prior and canons not to withhold their original alms, "eleemosynas," nor those that they were enjoined to distribute for the good of the souls of founders and benefactors; he also strictly orders that the fragments and broken victuals, both from the hall of their prior and their common refectory should be carefully collected together by their eleemosynarius, and given to the poor without any diminution; the officer to be suspended for neglect or omission.

"Liberationes, or liberature, allowances of corn, &c. to servants, delivered at certain times, and in certain quantities, as clothes were among the allowances from religious houses to their dependants. See the corrodies granted by Croyland abbey. Hist. of Croyland, Appendix, No XXXIV.

"It is not improbable that the word in after-ages came to be confined to the uniform of the retainers or servants of the great, who were hence called liver servants."

Sir John Cullum's Hist. of Havested.

A corroy is an allowance to a servant living in an abbey or priory.
Item 23d. He bids them distribute their *pittances*, "*pitacias*" regularly on obits, anniversaries, festivals, &c.

Item 25th. All and every one of the canons are hereby inhibited from standing godfather to *any boy* for the future, "ne *com-" patres alicujus pueri de cetero fieri presumatis," unless by express licence from the bishop obtained; because from such relationship favour and affection, nepotism, and undue influence, arise, to the injury and detriment of religious institutions.

Item 26th. The visitor herein severely reprimands the canons for appearing publicly in what would be called in the universities an *unfitutable* manner, and for wearing of boots, "*caligae de " Burneto, et *sotularium*——*in ocrearum loco, ad modum sotu-" larium*.

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* Pitancia, an allowance of bread and beer, or other provision to any pious use, especially to the religious in a monastery, &c. for augmentation of their commons.*

* Glos. to Kennett's Par. Antiq.

* The relationship between sponsors and their god-children, who were called "*spiritual sons and daughters," was formerly esteemed much more sacred than at present. The prefects at christenings were sometimes very considerable: the connexion lasted through life, and was closed with a legacy. This last mark of attention seems to have been thought almost indispensable: for, in a will, from whence no extracts have been given, the testator left every one of his god-children a bufulol of barley."

Sir John Cullum's Hist. of Havested.


1 Du Fresne is copious on *caligae* of several sorts. "Hoc item de Clericis, *prefertim" beneficiatis: *caligis facatis* (chequered) rubeis, et viridibus publice utentibus dici-" mus effe censendum." Statut. Eccles. Tutel. The chequered boots seem to be the highland plaid stockings.—"*Burnetum, i.e. Brunetum, pannis non ex laná nativi coloris " confectus.""——*Sotularium, i.e. subtalaris, quia sub talo est. Peculium genus, quibus " maxime Monachi noče utebantur in æfate; in hyeme vero Soccis."

This writer gives many quotations concerning *Sotularia*, which were not to be made too shapefly; nor were the *caligæ* to be laced too nicely.
OF SELBORNE.

It is remarkable that the bishop expresses more warmth against this than any other irregularity; and strictly enjoins them, under pain of ecclesiastical censures, and even imprisonment if necessary (a threat not made use of before), for the future to wear boots, "ocres feu botis," according to the regular usage of their ancient order.

Item 29th. He here again, but with less earnestness, forbids them foppish ornaments, and the affectation of appearing like beaux with garments edged with costly furs, with fringed gloves, and silken girdles trimmed with gold and silver. It is remarkable that no punishment is annexed to this injunction.

Item 31st. He here singly and severally forbids each canon not admitted to a cure of souls to administer extreme unction, or the sacrament, to clergy or laity; or to perform the service of matrimony, till he has taken out the license of the parish priest.

Item 32d. The bishop says in this item that he had observed and found, in his several visitations, that the sacramental plate and cloths of the altar, surplices, &c. were sometimes left in such an uncleanly and disgusting condition as to make the beholders shudder with horror;—"quod aliquibus sunt horrore k:" he therefore enjoins them for the future to see that the plate, cloths, and vestments, be kept bright, clean, and in decent order: and, what

k "Men abhorred the offering of the Lord." *Sam. chap. ii.* v. 17. Strange as this account may appear to modern delicacy, the author, when first in orders, twice met with similar circumstances attending the sacrament at two churches belonging to two obscure villages. In the first he found the inside of the chalice covered with birds' dung; and in the other the communion-cloth soiled with cabbage and the greasy drippings of a gammon of bacon. The good dame at the great farm-house, who was to furnish the cloth, being a notable woman, thought it best to save her clean linen, and so sent a foul cloth that had covered her own table for two or three Sundays before.
must surprise the reader, adds—that he expects for the future that
the sacrifice should provide for the sacrament good wine, pure and
unadulterated; and not, as had often been the practice, that which
was four, and tending to decay:—he says farther, that it seems
quite preposterous to omit in sacred matters that attention to de-
cent cleanliness, the neglect of which would disgrace a common-
convivial meeting 1.

* Item 33d says that, though the relics of saints, the plate, holy
vestments, and books of religious houses, are forbidden by canon-
ical institutes to be pledged or lent out upon pawn; yet, as the
visitor finds this to be the case in his several visitations, he there-
fore strictly enjoins the prior forthwith to recall those pledges, and
to restore them to the convent; and orders that all the papers and
title deeds thereto belonging should be safely deposited, and kept
under three locks and keys.

In the course of the *Visitatio Notabilis* the constitutions of Legate
Ottobonus are frequently referred to. Ottobonus was afterwards
Pope Adrian V. and died in 1276. His constitutions are in Lyndwood's
*Provinciale*, and were drawn up in the 52d of Henry III.

In the *Visitatio Notabilis* the usual punishment is fasting on bread
and beer; and in cases of repeated delinquency on bread and water.
On these occasions *quarta feria, et sexta feria*, are mentioned often,
and are to be understood of the days of the week numerically on
which such punishment is to be inflicted.

1 "—— — ne turpe toral, ne forida mappa
" Corruget nares; ne non et cantharus, et lanx
" Offendat tibi te — — —"
OF SELBORNE.

LETTER XV.

Though bishop Wykeham appears somewhat stern and rigid in his visitatorial character towards the Priory of Selborne, yet he was on the whole a liberal friend and benefactor to that convent, which, like every society or individual that fell in his way, partook of the generosity and benevolence of that munificent prelate.

"In the year 1377 William of Wykeham, out of his mere good will and liberality, discharged the whole debts of the prior and convent of Selborne, to the amount of one hundred and ten marks eleven shillings and sixpence"; and, a few years before he died, he made a free gift of one hundred marks to the same Priory: on which account the prior and convent voluntarily engaged for the celebration of two masses a day by two canons of the convent for ten years, for the bishop's welfare, if he should live so long; and for his soul if he should die before the expiration of this term."

At this distance of time it seems matter of great wonder to us how these societies, so nobly endowed, and whose members were exempt by their very institution from every means of personal and

m Yet in ten years time we find, by the Notabilis Visitatio, that all their relics, plate, vestments, title-deeds, &c. were in pawn.

a Lewel's Life of Wykeham.
family expense, could possibly run in debt without squandering their revenues in a manner incompatible with their function.

Religious houses might sometimes be distressed in their revenues by fires among their buildings, or large dilapidations from storms, &c.; but no such accident appears to have befallen the Priory at Selborne. Those situate on public roads, or in great towns where there were shrines of saints, were liable to be intruded on by travellers, devotees, and pilgrims; and were subject to the importunity of the poor, who swarmed at their gates to partake of doles and broken victuals. Of these disadvantages some convents used to complain, and especially those at Canterbury; but this Priory, from it's sequestered situation, could seldom be subject to either of these inconveniencies, and therefore we must attribute it's frequent debts and embarrassments, well endowed as it was, to the bad conduct of it's members, and a general inattention to the interests of the institution.
Beaufort was bishop of Winchester from 1405 to 1447; and yet, notwithstanding this long episcopate, only tom. I. of Beaufort's Register is to be found. This loss is much to be regretted, as it must unavoidably make a gap in the history of Selborne Priory, and perhaps in the list of its priors.

In 1410 there was an election for a prior, and again in 1411.

In vol. I. p. 24, of Beaufort's Register, is the instrument of the election of John Wynchestre to be prior—the substance as follows:

Richard Elftede, senior canon, signifies to the bishop that brother Thomas Westen, the late prior, died October 18th, 1410, and was buried November 11th.—That the bishop's license to elect having been obtained he and the whole convent met in the chapter-house, on the same day, about the hour of vespers, to consider of the election:—that brother John Wynchestre, then sub-prior, with the general consent, appointed the 12th of November, ad horam ejusdem diei capitularem, for the business:—when they met in the chapter-house, post missam de sancto Spiritu, solemnly celebrated in the church;—to wit, Richard Elftede; Thomas Halyborne; John Leynington, sacrista; John Stepe, cantor; Walter Farnham; Richard Putofforth, celerarius; Hugh London, Henry Brampton, alias Brompton; John Wynchester, senior; John Wynchestre, junior;—then "Proposito "primitus verbo Dei," and then ympno "Veni Creator Spiritus" being
being solemnly sung, cum "verbatim et oratione," as usual, and his letter of licence, with the appointment of the hour and place of election being read, *alia voce*, in vales of the chapter-house;—

*John Wynchestre*, senior, the sub-prior, in his own behalf and that of all the canons, and by their mandate, "quaedam monicionem "et protestacionem in scriptis redactas fecit, legit, et interposuit"—that all persons disqualified, or not having right to be present, should immediately withdraw; and protesting against their voting, &c.—that then having read the constitution of the general council "Quia propter," and explained the modes of proceeding to election, they agreed unanimously to proceed "per viam seu formam "simplicis compromissi;" when *John Wynchestre*, sub-prior, and all the others (the commissaries undesignated excepted) named and chose brothers *Richard Elsede*, *Thomas Halyborne*, *John Lemington* the sacrist, *John Stepe*, chantor, and *Richard Patworth*, canons, to be commissaries, who were sworn each to nominate and elect a fit person to be prior: and empowered by letters patent under the common seal, to be in force only until the darkness of the night of the same day;—that they, or the greater part of them, should elect for the whole convent, within the limited time, from their own number, or from the rest of the convent;—that one of them should publish their consent in common before the clergy and people;—they then all promised to receive as prior the person these five canons should fix on. These commissaries seceded from the chapter-house to the refectory of the Priory, and were shut in with master *John Penkester*, bachelor of laws; and *John Couke* and *John Lynne*, perpetual vicars of the parish churches of *Newton* and *Selborne*; and with *Sampson Maycock*, a public notary; where they treated of the election; when they unanimously agreed on *John Wynchestre*, and appointed *Thomas Halyborne* to chuse him in com-
mon for all, and to publish the election, as customary; and returned long before it was dark to the chapter-house, where Thomas Halyborne read publicly the instrument of election; when all the brothers, the new prior excepted, singing solemnly the hymn "Te Deum laudamus," fecerunt deportari novum electum, by some of the brothers, from the chapter-house to the high altar of the church; and the hymn being sung, dieiique versiculatur oratione confuetis in hac parte, Thomas Halyborne, max tunc ibidem, before the clergy and people of both sexes solemnly published the election in vulgari. Then Richard Elieele, and the whole convent by their proctors and nuncios appointed for the purposes, Thomas Halyborne and John Stepe, required several times the assent of the elected; et tandem post diutinas interpellationes, et deliberationem "providam penes se habitam, in hac parte divine nolens, ut "afferuit, resistere voluntati," within the limited time he signified his acceptance in the usual written form of words. The bishop is then supplicated to confirm their election, and do the needful, under common seal, in the chapter-house. November 14, 1410.

The bishop, January 6, 1410, apud Essex in camera inferiori, declared the election duly made, and ordered the new prior to be inducted—for this the archdeacon of Winchelsey was written to; "stallumque in choro, et locum in capitulo juxta morem preteriti "temporis," to be assigned him; and every thing beside necessary to be done.

* It seems here as if the canons used to chair their new elected prior from the chapter-house to the high altar of their convent church. In letter XXI, on the same occasion, it is said—"et sic canentes dictum electum ad majus altare ecclesiae deduceimus, ut apud nos "moris est."
Beaufort's Register, Vol. I.

P. 2. Taxatio spiritualis Decanatus de Aulton, Ecclesia de Selebourn, cum Capella,—xxx marc. decima xlib. iii sol. Vicaria de Selebourn non taxatur propter exilitatem.

P. 9. Taxatio bonorum temporaliu m religiosorum in Archidiac.

Wynton.

Prior de Selebourn habet meneria de

*Bromdene* taxat. ad — — — — — — xxxs. iid.
*Apud Schete* ad — — — — — — xvii s.
*P. Selebourne* ad — — — — — — vi lib.
*In civitate Wynton* de reddit. — — — — vi lib. viiib.
*Tannaria sua* taxat. ad — — — — xlib. s.
*Summa tax.* xxxviii lib. xiii d. ob. Inde decima vi lib. s. q. ob.
LETTER XVII.

Information being sent to Rome respecting the havoc and spoil that was carrying on among the revenues and lands of the Priory of Selborne, as we may suppose by the bishop of Winchester, its visitor, Pope Martin, as soon as the news of these proceedings came before him, issued forth a bull, in which he enjoins his commissary immediately to revoke all the property that had been alienated.

In this instrument his holiness accuses the prior and canons of having granted away (they themselves and their predecessors) to certain clerks and laymen their tithes, lands, rents, tenements, and possessions, to some of them for their lives, to others for an undue term of years, and to some again for a perpetuity, to the great and heavy detriment of the monastery: and these leaves were granted, he continues to add, under their own hands, with the sanction of an oath and the renunciation of all right and claims, and under penalties, if the right was not made good.—But it will be best to give an abstract from the bull.

N. 298. Pope Martin's bull touching the revoking of certaine things alienated from the Priory of Seleburne. Pontif. sui ann. 1.

P Pope Martin V. choen about 1417. He attempted to reform the church, but died in 1431, just as he had summoned the council of Basil.
"Martius Epf. fervus fervorum Dei. Dilecto filio Priori de
Southvale & Wyntonien. dioc. Salutem & apostolicam ben. Ad
audientiam nostram pervenit quam tam dilecti filii prior et
conventus monasterii de Seleburn per Priorem soliti gubernari
ordinis St. Augustini Winton. dioc. quam de predecessores eorum
decimas, terras, redditus, domos, possessiones, vineas, et
quedam alia bona ad monastrium ipsum spectantia, datis super
hoc litteris, interpositis juramentis, factis renuntiationibus, et
penis adjecitis, in gravem ipsius monasterii lectionem nonnullis
clericis et laicis, aliquibus eorum ad vitam, quibusdam vero
ad non modicum tempus, & aliiis perpetuo ad firmam, vel
sub cenzu annuo concefserunt; quorum aliqui dicunt super
hiis a fe de aplice in communi forma confirmationis litteras
impetraffe. Quia vero noftra intereft lefis monasteriiis sub-
venire—[He the Pope here commands]—ca ad jus et pro-
prietatem monasterii ftudeas legitime revocare," &c.

The conduct of the religious had now for some time been
generally bad. Many of the monastic socieites, being very opu-
lent, were become voluptuous and licentious, and had deviated
entirely from their original institutions. The laity saw with indig-
nation the wealth and poffeions of their pious ancestors perverted
to the service of fenhuality and indulgence; and spent in gratifi-
cations highly unbecoming the purposes for which they were

8 Should have been no doubt Southwick, a priory under Portsmouth.
9 Mr. Barrington is of opinion that anciently the English vinea was in almost every
instance an orchard; not perhaps always of apples merely, but of other fruits; as cherries,
plums, and currants. We still say a plum or cherry-orchard. See vol. III. of
Antiquities.

In the instance above the pope's secretary might infert vineas merely because they
were a species of cultivation familiar to him in Italy.
given. A total disregard to their respective rules and discipline drew on the monks and canons a heavy load of popular odium. Some good men there were who endeavoured to oppose the general delinquency; but their efforts were too feeble to stem the torrent of monastic luxury. As far back as the year 1381 Wickliffe's principles and doctrines had made some progress, were well received by men who wished for a reformation, and were defended and maintained by them as long as they dared; till the bishops and clergy began to be so greatly alarmed, that they procured an act to be passed by which the secular arm was empowered to support the corrupt doctrines of the church; but the first lollard was not burnt until the year 1401.

The wits also of those times did not spare the gross morals of the clergy, but boldly ridiculed their ignorance and profligacy. The most remarkable of these were Chaucer, and his contemporary Robert Langelande, better known by the name of Piers Plowman. The laughable tales of the former are familiar to almost every reader; while the visions of the latter are but in few hands. With a quotation from the Passus Decimus of this writer I shall conclude my letter; not only on account of the remarkable prediction therein contained, which carries with it somewhat of the air of a prophecy; but also as it seems to have been a striking picture of monastic insolence and dissipation; and a specimen of one of the keenest pieces of satire now perhaps subsisting in any language, ancient or modern.

"Now is religion a rider, a romer by streate;
"A leader of love-days, and a loud begger;
"A pricker on a palfrey from maner to maner,
"A heape of hounds at his arfe, as he a lord were.

"And
And but if his knave kneel, that shall his cope bring,
He loureth at him, and asketh him who taught him curtesie,
Little had lords to done, to give lands from her heirs,
To religious that have no ruth if it rain on her altars.
In many places ther they persons be, by himself at ease:
Of the poor have they no pity, and that is her charitie;
And they letten hem as lords, her lands lie so broad:
And there shal come a king, and confess you religious;
And beate you, as the bible telleth, for breaking your rule,
And amend monials, and monks, and chanons,
And put hem to her penaunce ad pristinum statum ire.

F. l. a. "This prediction, although a probable conclusion concerning a king who after a time would suppress the religious houses, is remarkable. I imagined it might have been foisted into the copies in the reign of king Henry VIII. but it is to be found in MSS. of this poem, older than the year 1400." fol. l. a. b.

"Again, where he, Piers Plowman, alludes to the Knights Templars, lately suppresed, he says

Men of holie kirk
Shall turn as Templars did; the tyme approacheth neve."

"This, I suppose, was a favourite doctrine in Wicliffe's discourses."

LETTER XVIII.

William of Waynflete became bishop of Winchester in the year 1447, and seems to have pursued the generous plan of Wykeham in endeavouring to reform the Priory of Selborne.

When Waynflete came to the see he found prior Stype, alias Stope, still living, who had been elected as long ago as the year 1411.

Among my documents I find a curious paper of the things put into the custody of Peter Bernes the sacrific, and especially some relics: the title of this evidence is "No. 50, Indentura prioris de Selborne quorundam tradit. Petro Bernes sacrificae, ibidem, ann. Hen. VI. una cum confiss. ejusdem Petri script." The occasion of this catalogue, or list of effects, being drawn between the prior and sacrific does not appear, nor the date when; only that it happened in the reign of Hen. VI.

This transaction probably took place when Bernes entered on his office; and there is the more reason to suppose that to be the case, because the list consists of vestments and implements, and relics, such as belonged to the church of the Priory, and fell under the care of the sacrific. For the numerous items I shall refer the curious reader to the Appendix, and shall just mention the relics, although they are not all specified; and the state of the live stock of the monastery at that juncture.

" Item
"Item 2. osculâtor. argent.
"Item 1. osculatorium cum offe digitâ auriculâr.—Sâ. Johannis Baptistae."
"Item 1. parvam crucem cum V. reliquis.
"Item 1. annulum argent. et deauratum St. Edmundi.
"Item 2. osculât. de coper.
"Item 1. junctorium St. Ricardi."
"Item 1. peîten St. Ricardi."

The flâurm, or live stock, is quite ridiculous, consisting only of "2 vacce, 1 fus, 4 hoggett. et 4 porcell." viz. two cows, one sow, four porkers, and four pigs.

5 How the convent came by the bone of the little finger of Saint John the Baptist does not appear: probably the founder, while in Palestine, purchased it among the Asiatics, who were at that time great traders in relics. We know from the best authority that as soon as Herod had cruelly beheaded that holy man "his disciples came "and took up the body and buried it, and went and told Jesus." Matt. iv. 12.—Further would be difficult to say.

1 November 20, in the calendar, Edmund king and martyr, in the 9th century. See also a Sanctus Edmundus in Godwin, among the archbishops of Canterbury, in the 13th century; his surname Rich, in 1234.

2 April 3, ibid. Richard bishop of Chichester, in the 13th century; his surname De la Vâch, in 1245.

Junctorium, perhaps a joint or limb of St. Richard; but what particular joint the religious were not such olâlogists as to specify. This barbarous word was not to be found in any dictionary consulted by the author.

x "Pêiten inter minîferis facra recenfetur, quo scil. facerdotes ac clerici, antequam "in ecclesiam procederent, crines pecterent. E quibus colligitur monachos, tune "temporis, non omnino tonfös fuiffe." Du Fresne.

The author remembers to have seen in great farm houses a family comb chained to a post for the use of the hinds when they came in to their meals.
Stepè died towards the end of the year 1453, as we may suppose pretty far advanced in life, having been prior forty-four years.

On the very day that the vacancy happened, viz. January 26, 1453-4, the sub-prior and convent petitioned the visitor—"vos unicum levamen nostrum, et spem unanimiter rogamus, quatinus eligendum ex nobis unum confratrem de gremio nostro, in nostra religione probatum et experTEM, licenciam vestram paternalem cum plena libertate nobis concedere dignemini graciose."

Reg. Waynflete, tom. I.

Instead of the licence requested we find next a commission "custodie prioratus de Selebourne durante vacatione," addressed to brother Peter Berne, canon-regular of the priory of Selebourne, and of the order of St. Augustine, appointing him keeper of the said priory, and empowering him to collect and receive the profits and revenues, and "alia bona" of the said priory; and to exercise in every respect the full power and authority of a prior; but to be responsible to the visitor finally, and to maintain this superiority during the bishop's pleasure only. This instrument is dated from the bishop's manor-house in Southwark, March 1, 1453-4, and the seventh of his consecration.
After this transaction it does not appear that the chapter of the Priory proceeded to any election; on the contrary, we find that at six months end from the vacancy the visitor declared that a lapse had taken place; and that therefore he did confer the priorship on canon Peter Berne.—“Prioratum vacantem et ad nostram collationem, seu provisionem jure ad nos in hac parte per lapsum temporis legitime devoluto spectantem, tibi (sc. P. Berne) de legitimo matrimonio procreato, &c.—conferimus,” &c. This deed bears date July 28, 1454.


On February 8, 1462, the visitor issued out a power of sequestration against the Priory of Selborne on account of notorious dilapidations, which threatened manifest ruin to the roofs, walls, and edifices, of the said convent; and appointing John Hammond, B. D., rector of the parish church of Hetlegb, John Hylling, vicar of the parish church of Newton Valence, and Walter Gorfin, inhabitant of the parish of Selborne, his sequestrators, to exact, collect, levy, and receive, all the profits and revenues of the said convent: he adds "ac ea sub areto, et tuto custodiatis, custodirive faciatis;" as they would answer it to the bishop at their peril.

In consequence of these proceedings prior Berne, on the last day of February, and the next year, produced a state of the revenues of the Priory, No. 381, called "A paper conteyning the value of the manors and lands pertayning to the Priory of Selborne. 4 Edward III. with a note of charges yffuing out of it."

This is a curious document, and will appear in the Appendix. From circumstances in this paper it is plain that the sequestration produced good effects; for in it are to be found bills of repairs to a considerable amount.
By this evidence also it appears that there were at that juncture only four canons at the Priory; and that these, and their four household servants, during this sequestration for their clothing, wages, and diet, were allowed per ann. xxx lib.; and that the annual pension of the lord prior, reside where he would, was to be x lib.

In the year 1468, prior Berne, probably wearied out by the dissensions and want of order that prevailed in the convent, resigned his priorship into the hands of the bishop.


March 28, A.D. 1468. "In quadam alta camera juxta magnum portam manerii of the bishop of Wynton de Wallham coram eodem rev. patre ibidem tunc sedente, Peter Berne, prior of Selborne, ipsum prioratum in sacras, et venerabiles manus of the bishop, viva voce libere resignavit: and his resignation was admitted before two witnesses and a notary-public. In consequence, March 29th, before the bishop, in capella manerii sui ante dieti pro tribunali sedente, comparuerunt fratres Peter Berne, Thomas London, William Wyndfor, and William Paynell, alias Stretford, canons regular of the Priory, "capitulum, et conventum ejusdem ecclesie facientes; ac jus et voces in electione futura prioris diei prioratus solum et in solidum, ut asseruerunt, habentes;" and after the bishop had notified to them the vacancy of a prior, with his free license to elect, deliberated awhile, and then, by way of compromise, as they affirmed, unanimously transferred their right of election to the bishop before witnesses. In consequence of this the bishop, after full deliberation, proceeded,

If bishop Wykeham was so disturbed (see Notab. Visitation) to find the number of canons reduced from fourteen to eleven, what would he have said to have seen it diminished below one third of that number?

Dd d 2

April
April 7th, "in capella manerii fui de Waltham," to the election of a prior; "et fratrem Johannem Morton, priorem ecclesie conventualis "de Reygate dici ordinis St. Augustini Wynton. dioc. in priorem "vice et nomine omnium et singulorum canonicorum predictorum "elegit, in ordine facerdotali, et etate licta conslitutum, &c." And on the same day, in the same place, and before the same witneffes, John Morton resigned to the bishop the priorfhip of Reygate viva voce. The bishop then required his conflent to his own election; "qui licet in parte renitens tanti reverendi patris fe confirmans," obeyed, and signified his conflent oraculo vve vocis. Then was there a mandate citing any one who would gainfay the faid election to appear before the bishop or his commiffary in his chapel at Farnham on the second day of May next. The dean of the deanery of Aulton then appeared before the chancellor, his commiffary, and returned the citation or mandate dated April 22d, 1468, with signification, in writing, of his having publiflied it as required, dated Newton Valence, May 1ft, 1468. This certificate being read, the four canons of Selborne appeared and required the election to be confirmed; et ex super abundanti appointed William Long their procuror to solicit in their name that he might be canonically confirm- ed. John Morton alfo appeared, and proclamation was made; and no one appearing againft him, the commiffary pronounced all absentees contumacious, and precluded them from objecting at any other time; and, at the inftance of John Morton and the procuror, confirmed the election by his decree, and directed his mandate to the rector of Hedley and the vicar of Newton Valence to install him in the ufual form.

Thus,
Thus, for the first time, was a person, a stranger to the convent of Selborne, and never canon of that monastery, elected prior; though the style of the petitions in former elections used to run thus, — "Vos - - - rogamus quatinus eligendum ex nobis unum confratrem de gremio nostro, licentiam vestram nobis concedere dignemini."

LETTER XX.

Prior Morton dying in 1471, two canons, by themselves, proceeded to election, and chose a prior; but two more (one of them Berne) complaining of not being summoned, objected to the proceedings as informal; till at last the matter was compromised that the bishop should again, for that turn, nominate as he had before. But the circumstances of this election will be best explained by the following extract:

REG. WAYNFLE TE, tom. II, pars 1ma, fol. 7.


William Wyndesfor, a canon-regular of the Priory of Selburne, having been elected prior on the death of brother John, appeared in person before the bishop in his chapel at South Waltham. He was
was attended on this occasion by Thomas London and John Bromesgrove, canons, who had elected him. Peter Berne and William Stratfeld, canons, also presented themselves at the same time, complaining that in this business they had been overlooked, and not summoned; and that therefore the validity of the election might with reason be called in question, and quarrels and differences might probably arise between the newly chosen prior and the parties thus neglected.

After some altercation and dispute they all came to an agreement with the new prior, that what had been done should be rejected and annulled; and that they would again, for this turn, transfer to the bishop their power to elect, order, and provide them another prior, whom they promised unanimously to admit.

The bishop accepted of this offer before witnesses; and on September 27, in an inner chamber near the chapel above-mentioned, after full deliberation, chose brother Thomas Fairwife, vicar of Somborne, a canon-regular of Saint Augustine in the Priory of Brufcough, in the diocese of Coventry and Litchfield, to be prior of Selborne. The form is nearly as above in the last election. The canons are again enumerated; W. Wyndefor, sub-prior, P. Berne, T. London, W. Stratfeld, J. Bromesgrove, who had formed the chapter, and had requested and obtained license to elect, but had unanimously conferred their power on the bishop. In consequence of this proceeding, the bishop taking the business upon himself, that the Priory might not suffer detriment for want of a governor, appoints the aforesaid T. Fairwife to be prior. A citation was ordered as above for gainsayers to appear October 4th, before the bishop or his commissaries at South Waltham; but none appearing, the commissaries admitted the said Thomas, ordered him to be installed,
flailed, and sent the usual letter to the convent to render him due obedience.

Thus did the bishop of Winchester a second time appoint a stranger to be prior of Selborne, instead of one chosen out of the chapter. For this seeming irregularity the visitor had no doubt good and sufficient reasons, as probably may appear hereafter.

LETTER XXI.

Whatever might have been the abilities and disposition of prior Fairwise, it could not have been in his power to have brought about any material reformation in the Priory of Selborne, because he departed this life in the month of Aug. 1472, before he had presided one twelvemonth.

As soon as their governor was buried the chapter applied to their visitor for leave to choose a new prior, which being granted, after deliberating for a time, they proceeded to an election by a scrutiny. But as this mode of voting has not been described but by the mere form in the Appendix, an extract from the bishop's register, representing the manner more fully, may not be disagreeable to several readers.

Wayneflete Reg. tom. II. pars 1m, fol. 15.

"Reverendo &c. ac nostro patrono gracioissimo vestri humiles, "et devote obedientie filii," &c.

To
To the right reverend Father in God, and our most gracious patron, we, your obedient and devoted sons, William Wyndesor, president of the chapter of the Priory of Selborne, and the convent of that place, do make known to your lordship, that our priorship being lately vacant by the death of Thomas Fairwffe, our late prior, who died August 11th, 1472, having committed his body to decent sepulture, and having requested, according to custom, leave to elect another, and having obtained it under your seal, we, William Wyndesor, president of the convent on the 29th of August, in our chapter-house assembled, and making a chapter, taking to us in this business Richard ap Jenkyn, and Galfrid Bryan, chaplains, that our said Priory might not by means of this vacancy incur harm or loss, unanimously agreed on August the last for the day of election; on which day, having first celebrated mass, "De sancto spiritu," at the high altar, and having called a chapter by tolling a bell about ten o’ the clock, we, William Wyndesor, president, Peter Berne, Thomas London, and William Stratfield, canons, who alone had voices, being the only canons, about ten o’ the clock, first sung "Veni Creator," the letters and licence being read in the presence of many persons there. Then William Wyndesor, in his own name, and that of all the canons, made solemn proclamation, enjoining all who had no right to vote to depart out of the chapter-house. When all were withdrawn except Guyllery de Lacuna, in decresis Baccalarius, and Robert Peverell, notary-public, and also the two chaplains, the first was requested to stay, that he might direct and inform us in the mode of election; the other, that he might record and attest the transactions; and the two last that they might be witnesses to them.

Then
Then, having read the constitution of the general council "Quia propter," and the forms of elections contained in it being sufficiently explained to them by De Lacuna, as well in Latin as the vulgar tongue, and having deliberated in what mode to proceed in this election, they resolved on that of scrutiny. Three of the canons, Wyndefor, Berne, and London, were made scrutators: Berne, London, and Stratfeld, choosing Wyndefor; Wyndefor, London, and Stratfeld, choosing Berne; Wyndefor, Berne, and Stratfeld, choosing London.

They were empowered to take each other's vote, and then that of Stratfeld; "et ad inferiorem partem angularem" of the chapter-house, "juxta optium ejufdem declinentes," with the other persons, (except Stratfeld, who stood behind) proceeded to voting, two swearing, and taking the voice of the third, in succession, privately. Wyndefor voted first: "Ego credo Petrum Berne meliorem et utili-orem ad regimen iftius ecclefie, et in ipfum confentio, ac eum "nomino," &c. Berne was next sworn, and in like manner nominated Wyndefor; London nominated Berne: Stratfeld was then called and sworn, and nominated Berne.

"Quibus in scriptis redactis," by the notary-public, they returned to the upper part of the chapter-house, where by Wyndefor "fic purca fecerunt in communi," and then solemnly, in form written, declared the election of Berne: when all, "antedieito "noftro electo excepto, approbantes et ratificantes, cepimus "decantare solemniter 'Te Deus laudamus,' et fic canentes dicitum "electum ad majus altare ecclefie deduximus, ut apud nos et "moris. Then Wyndefor electionem clero et populo infra chorum "dicte ecclefie congregatis publicavit, et personam electi publice "et personaliter ostendit." We then returned to the chapter-house, except our prior; and Wyndefor was appointed by the other two
their proctor, to desire the assent of the elected, and to notify what had been done to the bishop; and to desire him to confirm the election, and do whatever else was necessary. Then their proctor, before the witnesses, required Berne's assent in the chapter-house: "qui quidem instantiis et precibus multiplicatis devictus," consented, "licet indignus electus," in writing. They therefore request the bishop's confirmation of their election "sic canonice et solemniter celebrata," &c. &c. Sealed with their common seal, and subscribed and attested by the notary. Dat. in the chapter-house September 5th, 1472.

In consequence, September 11th, 1472, in the bishop's chapel at Eßer, and before the bishop's commissary, appeared W. Wyndesfor, and exhibited the above instrument, and a mandate from the bishop for the appearance of gainsayers of the election there on that day:—and no one appearing, the absentees were declared contumacious, and the election confirmed; and the vicar of Aulton was directed to induct and install the prior in the usual manner.

Thus did canon Berne, though advanced in years, reassume his abdicated priorship for the second time, to the no small satisfaction, as it may seem, of the bishop of Winchester, who professed, as will be shown not long hence, an high opinion of his abilities and integrity.
OF SELBORNE.

LETTER XXII.

As prior Berne, when chosen in 1454, held his priorship only to 1468, and then made a voluntary resignation, wearied and disgusted, as we may conclude, by the disorder that prevailed in his convent; it is no matter of wonder that, when re-chosen in 1472, he should not long maintain his station; as old age was then coming fast upon him, and the increasing anarchy and misrule of that declining institution required unusual vigour and resolution to stem that torrent of profligacy which was hurrying it on to its dissolution. We find, accordingly, that in 1478 he resigned his dignity again into the hands of the bishop.

WAYNFLETE REG. fol. 55.

Resignatio Prioris de Seleborne.

May 14, 1478. Peter Berne resigned the priorship. May 16 the bishop admitted his resignation "in manerio suo de Wallham," and declared the priorship void; "et priorat. solacio deflitutum "esse;" and granted his letters for proceeding to a new election: when all the religious, assembled in the chapter-house, did transfer their power under their seal to the bishop, by the following public instrument.

E e 2

"In
"In Dei nomine Amen," &c. A.D. 1478, Maii 19. In the chapter-house for the election of a prior for that day, on the free resignation of Peter Berne, having celebrated in the first place mass at the high altar "De Spiritu sancto," and having called a chapter by tolling a bell, ut moris est; in the presence of a notary and witnesses appeared personally Peter Berne, Thomas Ashford, Stephen Clydgrove, and John Aiston, presbyters, and Henry Canwood*, in chapter assembled; and after singing the hymn "Veni Creator Spiritus," cum versiculo et oratione "Deus qui corda," declarataque centia Fundatoris et patroni; futurum priorem eligendi cessà, et constitutione confilii generalis que incipit "Quia propter declaratis; viisque per quas possent ad hanc electionem procedere," by the decretorum doctorem, whom the canons had taken to direct them—they all and every one "dixerunt et affirmant se nolle ad aliquam viam procedere:—but, for this turn only, renounced their right, and unanimously transferred their power to the bishop, the ordinary of the place, promising to receive whom he should provide; and appointed a proctor to present the instrument to the bishop under their seal; and required their notary to draw it up in due form, &c. subscribed by the notary.

After the visitor had fully deliberated on the matter, he proceeded to the choice of a prior, and elected, by the following instrument, John Sharp, alias Glostenbury.

* Here we see that all the canons were changed in six years; and that there was quite a new chapter, Berne excepted, between 1472 and 1478; for, instead of Wyndefor, London, and Stratfield, we find Ashford, Clydgrove, Aiston, and Canwood, all new men, who were soon gone in their turn off the stage, and are heard of no more. For, in six years after, there seem to have been no canons at all.
OF SELBORNE.

Fol. 56. Provisio Prioris per Epis. Wiliam, &c. to our beloved brother in Christ John Sharp, alias Glaftenbury, Ecclesie conventualis de Bruton, of the order of St. Austin, in the diocese of Bath and Wells, canon-regular—salutem &c. "De tue circumspectiosis industria plurimum confidentes, "te virum providum et discreetum, literarum scientia, et moribus "merito commendandum," &c.—do appoint you prior—under our seal. "Dat. in manerio nostro de Suthwaltham, May 20," 1478, "et nostre Consec. 31."

Thus did the bishop, three times out of the four that he was at liberty to nominate, appoint a prior from a distance, a stranger to the place, to govern the convent of Selborne, hoping by this method to have broken the cabal, and to have interrupted that habit of mismanagement that had pervaded the society: but he acknowledges, in an evidence lying before us, that he never did succeed to his wishes with respect to those late governors,—"quos "tamen male se habuisse, et inutiliter administrare, et admini-
"strafse usque ad presentia tempora post debitam investigationem, "&c. invenit." The only time that he appointed from among the canons, he made choice of Peter Berne, for whom he had conceived the greatest esteem and regard.

When prior Berne first relinquished his priorship, he returned again to his former condition of canon, in which he continued for some years: but when he was re-chosen, and had abdicated a second time, we find him in a forlorn state, and in danger of being reduced to beggary, had not the bishop of Winchester interpolated in his favour, and with great humanity insisted on a provision for him.
him for life. The reason for this difference seems to have been, that, in the first case, though in years, he might have been hale and capable of taking his share in the duty of the convent; in the second, he was broken with age, and no longer equal to the functions of a canon.

Impressed with this idea the bishop very benevolently interceded in his favour, and laid his injunctions on the new-elected prior in the following manner.

Fol. 56. "In Dei nomine Amen. Nos Willmus, &c. conside-
rantes Petrum Berne," late prior "in administratione spiritualium "et temporalium prioratus laudabilius vixisse et rexisse; ipfumque "senio et corporis debilitate confraetum; ne in opprobrium "religionis mendicari cogatur;—eodem annuam pensionem a Domino "Johanne Sharp, alias Glaftonbury, priore moderno," and his suc-
cessors, and, from the Priory or church, to be payed every year during his life, "de voluntate et ex consensu expressis" of the said John Sharp, "sub ea que sequitur forma verborum — aslig-
" namus:

1st. That the said prior and his successors, for the time being, "honeste exibebunt of the fruits and profits of the priorship, "eodem "efculenta et poculenta," while he remained in the Priory "sub "confimili portione eorundem prout convenienter priori," for the time being, "ministrari contigerit; and in like manner uni famulo, whom he should chufe to wait on him, as to the servientibus of the prior.

Item. "Invenunt feu exibebunt eadem unam honestam came-
"ram" in the Priory, "cum focalibus necessariis feu opportunis "ad eundem.

Item.
Item. We will, ordain, &c. to the said P. Berne an annual pension of ten marks, from the revenue of the Priory, to be paid by the hands of the prior quarterly.

The bishop decrees farther, that John Sharp, and his successors, shall take an oath to observe this injunction, and that before their installation.

"Lecta et facta sunt hæc in quodam alto oratorio," belonging to the bishop at Suthwaltham, May 25, 1478, in the presence of John Sharp, who gave his assent, and then took the oath before witnesses, with the other oaths before the chancellor, who decreed he should be inducted and installed; as was done that same day.

How John Sharp, alias Glastonbury, acquitted himself in his priorship, and in what manner he made a vacancy, whether by resignation, or death, or whether he was removed by the visitor, does not appear; we only find that some time in the year 1484 there was no prior, and that the bishop nominated canon Ablford to fill the vacancy.
This Thomas Ashford was most undoubtedly the last prior of Selborne; and therefore here will be the proper place to say something concerning a list of the priors, and to endeavour to improve that already given by others.

At the end of bishop Tanner's Notitia Monastica, the folio edition, among Brown Willis's Principals of Religious Houses occur the names of eleven of the priors of Selborne, with dates. But this list is imperfect, and particularly at the beginning; for though the Priory was founded in 1232, yet it commences with Nich. de Cantia, elected in 1262; so that for the first thirty years no prior is mentioned; yet there must have been one or more. We were in hopes that the register of Peter de Rupibus would have rectified this omission; but, when it was examined, no information of the sort was to be found. From the year 1410 the list is much corrected and improved; and the reader may depend on it's being thence forward very exact.
A List of the Priors of Selborne Priory, from Brown Willis’s Principals of Religious Houses, with additions within [ ] by the author.

[John - - - was prior, fine dat.]
Nich. de Cantia cl. - - - - 1262.

Peter —— was prior in - - - - 1271.

Richard —— was prior in - - - - 1280.

Will. Besing was prior in - - - - 1299.

Walter de Insula cl. in - - - - 1324.

[Some difficulties, and a devolution; but the election confirmed by bishop Stratford.]

John de Winton - - - - 1339.

Thomas Weston - - - - 1377.


[Elected by bishop Beaufort "per viam vel formam " simplicis compromissi.]

[John Stype, alias Stepe, in - - - - 1411.]

Peter Bene [alias Berne or Bernes, appointed keeper, and, by lapse to bishop Waynesfete, prior] in - - 1454.

[He resigns in 1468.]


[The canons by compromise transfer the power of election to the bishop.]

See, in Letter XI. of these Antiquities, the reason why prior John - - -, who had transactions with the Knight's Templars, is placed in the list before the year 1262.
Will. Winfor [Wyndefor, prior for a few days] 1471.
[but removed on account of an irregular election.]
Thomas Farwill [Fairwif, vicar of Somborne] 1471.
[by compromise again elected by the bishop.]

Peter Berne, re-elected by scrutiny in 1472,
[resigns again in 1478.]
John Sharper [Sharp] alias Glastonbury. 1478,
[Canon-reg. of Bruton, elected by the bishop by com-
promise.]

Thomas Askford, canon of Selborne, last prior elected by
the bishop of Winchester, some time in the year 1484,
and deposed at the dissolution.
OF SELBORNE.

LETTER XXIV.

Bishop Wayneflete's efforts to continue the Priory of Selborne proved unsuccessful; and the convent, without any canons, and for some time without a prior, was tending swiftly to its dissolution.

When Sharp's, alias Glastonbury's, priorship ended does not appear. The bishop says that he had been obliged to remove some priors for male-administration: but it is not well explained how that could be the case with any, unless with Sharp; because all the others, chosen during his episcopate, died in their office, viz. Morton and Fairwifé; Berne only excepted, who relinquished twice voluntarily, and was moreover approved of by Wayneflete as a person of integrity. But the way to shew what ineffectual pains the bishop took, and what difficulties he met with, will be to quote the words of the libel of his proctor Radulphus Langley, who appeared for the bishop in the process of the impropriation of the Priory of Selborne. The extract is taken from an attested copy.

"Item—that the said bishop—dicit prioratus et personis ejusdem
pie compatiens, sollicitudines pastorales, labores, et diligentias
gravissimas quam plurimas, tam per se quam per suos, pro re-
formatione premissorum impedebat: et aliquando illius loci
prioribus, propter malam et inutilam administrationem, et dif-
pensationem bonorum predicti prioratus, suis demeritis exigen-
F f f 2 " tibus,
404 ANTIQUITIES

"tibus, amotis; alios priores in quorum circumspoctione et
diligentia confidebat, prefecit: quos tamem male se habuisse ac
inutiliter adminiftrare, et adminiftraffe, ufque ad prefentia tem-
pora post debitam investigationem, &c. inventit." So that he
despaired with all his care—" fJatum ejusdem reparare vel refiau-
rare: et confiderata temporis malicia, et preteritis timendo et
conjecturando futura, de aliqua bona et fanea religione ejusdem
ordinis, &c. juxta piam intentionem primevi fundatoris ibidem
habend. desperatur."

William Wainfleet, bishop of Winchester, founded his college of
Saint Mary Magdalene, in the university of Oxford, in or about the
year 1459; but the revenues proving insufficient for so large and
noble an establishment, the college supplicated the founder to
 augment it’s income by putting it in poifession of the estates be-
 longing to the Priory of Selborne, now become a deferted convent,
without canons or prior. The prefident and fellows state the cir-
cumstances of their numerous infitution and scanty provision, and
the ruinous and perverted condition of the Priory. The bishop
appoints commiffaries to inquire into the state of the said monaf-
tery; and, if found expedient, to confirm the appropriation of
it to the college, which soon after appoints attornies to take po-
feffion, September 24, 1484. But the way to give the reader a
thorough insight respecting this tranfation, will be to transcribe
a farther proportion of the procfs of the impriopriation from the
beginning, which will lay open the manner of proceeding, and
 fhew the content of the parties.

Impropriatio
OF SELBORNE.

**Impropriatio Selborne, 1485.**

"Univerfis fanete matris ecclefe filis, &c. Ricardus Dei gratia prior ecclefe conventualis de Novo Loco, &c. ad universitatem vestre notitie deducimus, &c. quod coram nobis commiffario predicto in ecclefe parochiali St. Georgii de Esber, dikt. Winton. dioc. 3o. die Augusti, A. D. 1485. Indictione tertia pontificat. Innocentii 8o. ann. 1mo. judicialiter comparuit venerabilis vir Jacobus Preston, S. T. P. infrascriptus, et exhibuit literas commiffionis—quas quidem per magistrum Thomam Somercotes notarium publicum, &c. legi fecimus, tenorem sequentem in fe continentem." The fame as No. 103, but dated—"In manerio nostro de Esber, Augusti, 1mo. A. D. 1485, et nostro confec. anno 39." [No. 103 is repeated in a book containing the like process in the preceding year by the fame commiffary, in the parish church of St. Andrewe the apostle, at Farnham, Sept. 6th, anno 1484.] "Post quam literarum lecutram—diktus magister Jacobus Preston, quaudam procuratorias literas mag. Richardi Mayewe presidentis, ut asieruit, collegii beate Marie Magdalene, &c. figillo rotundo communi, &c. in cera rubea impresso figillatas realiter exhibuit, &c. et pro eisdem dniis suis, &c. fecit fe partem, ac nobis supplicavit ut juxta

* Ecclefa Conventualis de Novo Loco was the monastery afterwards called the New Minifter, or Abbey of Hyde, in the city of Winchester. Should any intelligent reader wonder to fee that the prior of Hyde Abbey was commiffary to the bishop of Winton, and should conclude that there was a mistake in titles, and that the abbot must have been here meant; he will be pleased to recollect that this person was the second in rank; for, "next under the abbot, in every abbey, was the prior." Pref. to Notit. Monast. p. xxix. Besides, abbots were great personages, and too high in station to submit to any office under the bishop.
formam in eisdem traditam procedere dignaremur, &c." After these proclamations no contradictor or abjector appearing—" ad instan tem petitionem ipsius mag. Jac. Preflon, procuratoris, &c. procedendum fore decrevimus vocatis jure vocandis; nec non mag. Tho. Somercotes, &c. in actorum nostrorum scribam nominavimus. Consequenter et ibidem tunc comparuit magister Michael Clff, &c. et exhibuit in ea parte procuratorium suum," for the prior and convent of the cathedral of Winton, " et fecit se partem pro eisdem.—Deinde comparuit coram nobis, &c. honestus vir Willmus Cowper," proctor for the bishop as patron of the Priory of Selborne, and exhibited his "procuratorium, &c." After these were read in the presence of Clff and Cowper, " Prefton, viva voce," petitioned the commissary to annex and appropriate the Priory of Selborne to the college—" propter quod fructus, redditus, et proventus ejusdem coll. adeo tenues sunt, et exiles, quod ad suflentationem ejus, &c. non sufficiunt."—The commissary, "ad libellandum et articulandum in scriptis"—adjourned the court to the 5th of August, then to be held again in the parish church of Esber.

W. Cowper being then absent, Radulphus Langley appeared for the bishop, and was admitted his proctor. Prefton produced his libel or article in scriptis for the union, &c. " et admitteri petit " eundem cum effectu; ejus libelli tenor sequitur. — In Dei nomine, Amen. Coram nobis venerabili in Christo patre Richardo, priore, &c. de Novo Loco, &c. commissario, &c." Part of the college of Magd. dicit. allegat, and in his "scriptis proponit, &c."

"Imprimis"
"Imprimis—that said college consists of a president and eighty
scholars, besides sixteen choristers, thirteen servientes inibi al-
tissimo famulanibus, et in scientiis plerisque liberalibus, pre-
sertim in sacra theologia studentibus, nundum ad ipsorum presi-
dentis et scholarium pro presenti et impofterum, annuente deo,
incorporandorum in codem relevamen; verum etiam ad omnium
et singulorum tam scholarium quam religioforum cujuscunque
ordinis undeque illuc confluere pro salubri doctrina volen-
tium utilitatem multiplicem ad incrementa virtutis fideique
catholice stabilimentum. Ita videlicet quod omnes et singuli
ab ipso personarum seu nationum delectu illuc accedere volentes,
lecturas publicas et doctrinas tam in grammatica in loco ad
collegium contiguo, ac philosophis morali et naturali, quam
in sacra theologia in codem collegio perpetuis temporibus con-
tinuandas libere atque gratis audire valeant et possint, ad
laudem gloriam et honorem Dei, &c. extitit fundatum et
stabilitum."

For the first item in this process see the beginning of this letter. Then follows item the second—"that the revenues of the college non
sufficiunt his diebus." "Item—that the premises are true, &c.
et super eisdem laborarunt, et laborant publica vox et fama.
Unde facta fide petit pars eorundem that the Priory be annexed
to the college: ita quod dico prioratu vacante liceat ii ex
tune to take possession, &c." This libel, with the express
confent of the other proctors, we, the commissary, admitted, and
appointed the sixth of August for proctor Presto to prove the
premises.

Presto produced witnesses, W. Gyfford, S. T. P. John Nele, A. M.
John Chapman, chaplain, and Robert Baron, literatus, who were ad-
mitted and sworn, when the court was prorogued to the 6th of
August;
August; and the witnesses, on the same 5th of August, were examined by the commissary, "in capella infra manerium de Esber situata, "secreta et singillatim." Then follow the "literæ procuratoriae:" first that of the college, appointing Preston and Langport their proctors, dated August 30th, 1484; then that of the prior and convent of the cathedral of Winton, appointing David Husband and Michael Cleve, dated September 4th, 1484: then that of the bishop, appointing W. Gyfford, Radulphus Langley, and Will. Cowper, dated September 5th, 1484. Consec. 38°.—"Quo die adventiente "in dicta ecclesia parochiali," appeared "coram nobis" James Preston to prove the contents of his libel, and exhibited some letters testimonial with the seal of the bishop, and these were admitted; and consequenter Preston produced two witnesses, viz. Dominum Thomam Ashforde nuper priorem dicit prioratus, et Willm. Rabbys literatum, who were admitted and sworn, and examined as the others, by the commissary; "tunc & ibidem assistente scriba secreta & singillatim;" and their depositions were read and made public, as follows:

Mr. W. Gyfford, S. T. P. aged 57, of the state of Magd. Coll. &c. &c. as before:

Mr. John Nele, aged 57, proves the articles also:

Robert Baron, aged 56:

Johannes Chapman, aged 35, also affirmed all the five articles:

Domnus Thomas Ashforde, aged 72 years—"dicit 2 dum. 3 um. 4 um. "articulos in eodem libello contentos, concernentes statum dicti "prioratus de Selebourne, fuiffe et esse veros."

W. Rabbys, ætat 40 ann. agrees with Gyfford, &c.

Then follows the letter from the bishop, "in subsidium pro-"bationis," abovementioned—"Willmns, &c. salutem, &c. "noverint universitas vestra, quod licet nos prioratui de Sele-

"bourne, &c. pie compacientes follicitudines pastorales, labores, "diligentias
OF SELBORNE.

"diligentias quam plurimas per nos & commissarios nostros pro
"reformatione status ejus imponerimus, justicia id poscente;
"nihilominus tamen," &c. as in the article — to "desperatur,"
dated "in manerio nostro de Esber, Aug. 3d, 1485, & consec. 39."
Then, on the 6th of August, Preston, in the presence of the other
proctors, required that they should be compelled to answer;
when they all allowed the articles "suffe & effe vera;" and the
commisary, at the request of Preston, concluded the business, and
appointed Monday, August 8th, for giving his decree in the same
church of Esber; and it was that day read, and contains a recapitu-
lation, with the sentence of union, &c. witnessed and attested.

As soon as the president and fellows of Magdalen college had ob-
tained the decision of the commissary in their favour, they pro-
ceded to supplicate the pope, and to entreat his holiness that he
would give his sanction to the sentence of union. Some diffi-
culties were started at Rome; but they were surmounted by the
college agent, as appears by his letters from that city. At length
pope Innocent VIII. by a bull ¹ bearing date the 8th day of June, in
the year of our Lord 1486, and in the second year of his pontificate,
confirmed what had been done, and suppressed the convent.

Thus fell the considerable and well-endowed Priory of Selborne
after it had subsisted about two hundred and fifty-four years: about
seventy-four years after the suppression of Priories alien by
Henry V. and about fifty years before the general dissolution of
monasteries by Henry VIII. The founder, it is probable, had

¹ There is nothing remarkable in this bull of pope Innocent except the statement of the
annual revenue of the Priory of Selborne, which is therein estimated at 160 flor. auri;
whereas bishop Godwin sets it at 337l. 15s. 6d. Now a florin, so named, says
Camden, because made by Florentines, was a gold coin of king Edward III, in value 6s.
whereof 160 is not one seventh part of 337l. 15s. 6½d.

G g g fondly
fondly imagined that the sacredness of the institution, and the
pious motives on which it was established, might have preserved
it inviolate to the end of time—yet it fell,

"To teach us that God attributes to place
"No sanctity, if none be thither brought
"By men, who there frequent, or therein dwell."

* * *

Milton's Paradise Lost.

LETTER XXV.

Wainfleet did not long enjoy the satisfaction arising from
this new acquisition; but departed this life in a few months after
he had effected the union of the Priory with his late founded col-
lege; and was succeeded in the see of Wincheñer by Peter Courtney,
some time towards the end of the year 1486.

In the beginning of the following year the new bishop released
the president and fellows of Magdalen College from all actions re-
specting the Priory of Selborne; and the prior and convent of Saint
Swithun, as the chapter of Wincheñer cathedral, confirmed the
release a.

N. 293. "Relaxatio Petri epi Winton Ricardo Mayow, Presi-
denti omnium actionum occasione indemnitatis sibi debite pro
unione Prioratus de Selborne dicto collegio. Jan. 2. 1487. et
translat. anno 1o."

N. 374. "Relaxatio prioris et conventus Stj. Swithini Winton

* The bishops of Wincheñer were patrons of the Priory.

Asthforde,
OF SELBORNE.

Asjhforde, the deposed prior, who had appeared as an evidence for the improperation of the Priory at the age of seventy-two years, that he might not be destitute of a maintenance, was pensioned by the college to the day of his death; and was living on till 1490, as appears by his acquittances.

Reg. A. ff. 46.

"Omnibus Christi fidelibus ad quos prefens scriptum pervenerit, Richardus Mayew, presidens, &c. et scolares, salutem in Domino."

"Noveritis nos prefatos presidentem et scolares dediffe, concessisse, et hoc presenti scripto confirmassisse Thome Asjhforde, capellano, quendam annualem redditionem sex librarum tresdecim solidorum et quatuor denariorum bone et legalis moneta Anglie—ad terminum vite prefati Thome—to be paid from the possessions of the college in Basingstoke.—" In cujus rei testimonium sigillum nostrum commune presentibus apponimus. "Dat. Oxon. in coll. nostras supra dicto primo die mensis Iunii anno regis Ricardi tertii secundo." viz. 1484. The college, in their grant to Asjhforde, style him only capellanus; but the annuitant very naturally, and with a becoming dignity, afferts his late title in his acquittances, and identifies himself by the addition of nuper priorem, or late prior.

As, according to the persuasion of the times, the depriving the founder and benefactors of the Priory of their masses and services would have been deemed the most impious of frauds, bishop Wainfleet, having by statute ordained four obits for himself to be celebrated in the chapel of Magdalen College, enjoined in one of them a special collect for the anniversary of Peter de Rupibus, with a particular prayer—"Deus Indulgentiarum."
The college also sent Nicholas Langrijh, who had been a chantry priest at Selborne, to celebrate masses for the souls of all that had been benefactors to the said Priory and college, and for all the faithful who had departed this life.

N. 356. Thomas Knowles, presidens, &c.—"damus et concedimus Nicholao Langrijh quandum capellaniam, vel salarium, five alio quocunque nomine censeatur, in prioratu quondam de Selborne pro termino 40 annorum, si tam diu vixerit. Ubi dictus magistratus celebrabit pro animabus omnium benefactorum dicti prioratus et coll. nostri, et omnium fidelium defunctorum. Insuper nos, &c. concedimus eodem ibidem celebranti in suftentationem suam quandam annuaem pensionem quinque annuitatem octo librarum &c.—in dicta capella dicti prioratus—concedimus duas cameras contiguas ex parte boreali dictae capelle, cum una coquina, et cum uno stabulo conveniente pro tribus equis, cum pomerio eodem adjacente voc. le Orcebyard—Preterea 26s. 8d. per annum ad inveniendum unum clericum ad serviendum sibi ad altare, et alios negotios necessarios ejus."—His wood to be granted him by the president on the progress. —He was not to absent himself beyond a certain time; and was to superintend the coppices, wood, and hedges.—

"Dat. 5o. die Julii. anno. Hen. VIII. 36o." [viz. 1546.]

Here we see the Priory in a new light, reduced as it were to the state of a chantry, without prior and without canons, and attended only by a priest, who was also a sort of bailiff or woodman, his assistant clerk, and his female cook. Owen Ogletborpe, president, and Magd. Coll. in the fourth year of Edward VI. viz. 1551, granted an annuity of ten pounds a year for life to Nick. Langrijh, who, from the preamble, appears then to have been fellow of that society: but, being now superannuated for business, this pension is granted
granted him for thirty years, if he should live so long. It is said of him—"cum jam sit provectionis etatis quam ut," &c.

Laurence Stubb, president of Magd. Coll. leased out the Priory lands to John Sharp, husbandman, for the term of twenty years, as early as the seventeenth year of Henry VIII.—viz. 1526: and it appears that Henry Newlyn had been in possession of a lease before, probably towards the end of the reign of Henry VII. Sharp's rent was viii. per ann.—Regift. B. p. 43.

By an abstract from a lease lying before me, it appears that Sharp found a house, two barns, a stable, and a dovecouse, [dove-house] built, and standing on the south side of the old Priory, and late in the occupation of Newlyn. In this abstract also are to be seen the names of all the fields, many of which continue the same to this day b. Of some of them I shall take notice, where any thing singular occurs.

And here first we meet with Paradise [Paradise] made. Every convent had it's Paradise; which probably was an enclosed orchard, pleasantly laid out, and planted with fruit-trees.—Tyle-house grove, so distinguished from having a tiled house near itc.

b It may not be amiss to mention here that various names of tithings, farms, fields, woods, &c. which appear in the ancient deeds, and evidences of several centuries standing, are still preferred in common use with little or no variation:—as Norton, Southington, Durton, Achangre, Blackmore, Bradbot, Rood, Plesfor, &c. &c. At the same time it should be acknowledged that other places have entirely lost their original titles, as le Buri and Truscliffe in this village; and la Liega, or la Lyge, which was the name of the original site of the Priory, &c.

c Men at first heaped sods, or fern, or heath, on their roofs to keep off the inclemencies of weather; and then by degrees laid straw or haum. The first refinements on roofing were shingles, which are very ancient. Tiles are a very late and imperfect covering, and were not much in use till the beginning of the sixteenth century. The first tiled house at Nottingham was in 1503.

But: wood
Butt-wood close; here the servants of the Priory and the village-fewains exercised themselves with their long bows, and shot at a mark against a butt, or bank.—Conduit wood: the engroffer of the lease not understanding this name has made a strange barbarous word of it. Conduit-wood was and is a steep, rough cow-pasture, lying above the Priory, at about a quarter of a mile to the south-west. In the side of this field there is a spring of water that never fails; at the head of which a cistern was built which communicated with leaden pipes that conveyed water to the monastery. When this reservoir was first constructed does not appear, we only know that it underwent a repair in the episcopate of bishop Wainfleet, about the year 1462. Whether these pipes only conveyed the water to the Priory for common and culinary purposes, or contributed to any matters of ornament and elegance, we shall not pretend to say; nor when artists and mechanics first understood any thing of hydraulics, and that water confined in tubes would rise to its original level. There is a person now living who had been employed formerly in digging for these pipes, and once discovered several yards, which they sold for old lead.

There was also a plot of ground called Tan-house garden: and "Tannaria sua," a tan-yard of their own, has been mentioned in Letter XVI. This circumstance I just take notice of, as an instance that monasteries had trades and occupations carried on within themselves.

4 There is also a Butt-close just at the back of the village.
5 There is still a wood near the Priory called Tanner's wood.
OF SELBORNE.

Regifr. B. pag. 112. Here we find a lease of the parsonage of Selborne to Thomas Sylvester and Miles Arnold, husbandmen—of the tythes of all manner of corn pertaining to the parsonage—with the offerings at the chapel of Whaddon belonging to the said parsonage. Dat. June 1. 27th. Hen. 8th. [viz. 1536.]

As the chapel of Whaddon has never been mentioned till now, and as it is not noticed by bishop Tanner in his Notitia Monastica, some more particular account of it will be proper in this place. Whaddon was a chapel of ease to the mother church of Selborne, and was situated in the tithing of Oakhanger, at about two miles distance from the village. The farm and field whereon it stood are still called chapel farm and field: but there are no remains or traces of the building itself, the very foundations having been destroyed before the memory of man. In a farm yard at Oakhanger we remember a large hollow stone of a close substance, which had been used as a bog-trough, but was then broken. This stone, tradition said, had been the baptismal font of Whaddon chapel. The chapel had been in a very ruinous state in old days; but was new-built at the instance of bishop Wainfleet, about the year 1463, during the first priorship of Berne, in consequence of a sequestration issued forth by that visitor against the Priory on account of notorious and shameful dilapidations.

This is a manor-farm, at present the property of Lord Stanwell; and belonged probably in ancient times to Jo. de Venur, or Venuz, one of the first benefactors to the Priory.

See Letter XIX. of these Antiquities.—"Summa total. solut. de novis edificationibus, et reparacionibus per idem tempus, ut patet per comput." "Videlicet de nova edificat. Capelle Marie de Wadden. xiii lib. vi. viii d.---Reparationibus ecclesie Prioratus, cancellor, et capellar. ecclesiarum et capellarum de Selborne, et Esfworblan"---&c. &c.

The
The Selborne rivulet becomes of some breadth at Oakhanger, and, in very wet seasons, swells to a large flood. There is a bridge over the stream at this hamlet of considerable antiquity and peculiar shape, known by the name of Turnbridge: it consists of one single blunt gothic arch, so high and sharp as to render the passage not very convenient or safe. Here was also, we find, a bridge in very early times; for Jacobus de Hockangre, the first benefactor to the Priory of Selborne, held his estate at Hockangre by the service of providing the king one foot-soldier for forty days, and by building this bridge. "Jacobus de Hockangre tenet Hockangre in com. "Southampton, per Serviantiam¹, inveniendi unum valetum in exercitui Domini regis [scil. Henrici III] per 40 dies; et ad facti ciendum pontem de Hockangre: et valet per ann. C. s."

Blunt’s Ancient Tenures, p. 84.

A dove-house was a constant appendant to a manorial dwelling: of this convenience more will be said hereafter.

A corn-mill was also esteemed a necessary appendage of every manor; and therefore was to be expected of course at the Priory of Selborne.

The prior had secla molendini, or ad molendinum²; a power of compelling his vassals to bring their corn to be ground at his mill, according to old custom. He had also, according to bishop Tanner, secla molendini de Strete: but the purport of Strete, we must confess, we do not understand. Strete, in old English, signifies a road or highway, as Watling Strete, &c. therefore the prior might

¹ Sargentia, a sort of tenure of doing something for the king.

² "Servitium, quo feuadatorii grana sua ad Domini molendinum, ibi molenda per seque, exconfuetudine, astringuntur."
have some mill on a high road. The Priory had only one mill originally at Selborne; but, by grants of lands, it came possessed of one at Durten, and one at Oakbanger, and probably some on its other several manors. The mill at the Priory was in use within the memory of man, and the ruins of the mill-house were standing within these thirty years: the pond and dam, and miller's dwelling, still remain. As the stream was apt to fail in very dry summers, the tenants found their situation very distressing, for want of water, and so were forced to abandon the spot. This inconvenience was probably never felt in old times, when the whole district was nothing but woodlands: and yet several centuries ago there seem to have been two or three mills between Well-bead and the Priory. For the reason of this assertion, see Letter XXIX. to Mr. Barrington.

Occasional mention has been made of the many privileges and immunities enjoyed by the convent and its priors; but a more particular state seems to be necessary. The author therefore thinks this the proper place, before he concludes these antiquities, to introduce all that has been collected by the judicious bishop Tanner, respecting the Priory and its advantages, in his Notitia Monastica, a book now seldom seen, on account of the extravagance of its price; and being but in few hands cannot be easily consulted. He also adds a few of its many privileges from other authorities:—the account is as follows. Tanner, page 166.

1 Thomas Knowles, president, &c. ann. Hen. vi. xxii. [viz. 1532.] demised to J. Whitelie their mills, &c. for twenty years. Rent. xxiii s. iii d.---Accepted Freemen, president, &c. ann. Caroli xv. [viz. 1640.] demised to Jo. Hook and Elizabeth, his wife, the said mills. Rent as above.

2 A few days after this was written a new edition of this valuable work was announced, in the month of April of the year 1787, as published by Mr. Naphth.
A priory of black canons, founded by the often-mentioned Peter de Rupibus, bishop of Winchester, A.D. 1233, and dedicated to the blessed Virgin Mary; but was suppressed — and granted to William Wainfleet, bishop of Winchester, who made it part of the endowment of St. Mary Magdalene College in Oxford. The bishops of Winchester were patrons of it. [Pat. 17. Edw. II.] Vide in Mon. Angl. tom. II. p. 343. "Cartam fundationis ex ipso autographo in archivis Coll. Magd. Oxon. ubi etiam conservata sunt: registration, cartæ, rentalia et alia munimenta ad hunc prioratum spectantia."


OF SELBORNE.


Item clamat qo fi aliquis hominum fuorum de terris et
ten. p. delicto suo vitam aut membrum debeat amittere vel
fugiat, & judicio flare noluerit vel aliud delictum fecit pro
quo debeat catella sua amittere, ubicunq; justitia fieri debeat
omnia catella illa sint ptei Prioris et successor. &ror. Et liceat
eidem priori et ballis suis ponere s in feifnam in hujusmodi
catall. in caibus pdcis fine disturbacene ballivor. dni reg.
quorumcunque.

Item clam. quod licet aliqua libtatum p dam regem con-
ceflar. pceflu temporis quocunq; cafu contingente ufi non
uuerint, nolminus postea eadm libtate uti possit. Et pdcus prior
quesitus p jusfic. quo waranto clamat omn. terr. et ten. sua in
Seleburne, Norton, Bafinges, Bafingesfoke, & Nattele, que prior
domus pdte huit & tenuit Xmo. die April anno regni dni Hen.
reg. pavi dni reg. nue XVIII. imppm esse quieta de vafto et
regardo, et visu forestar. et viridar. regardator. et omnium
ministrorum foreste.” &c. &c.—Chapter-house, Westminster.
THOUGH the evidences and documents of the Priory and parish of Selborne are now at an end, yet, as the author has still several things to say respecting the present state of that convent and its Grange, and other matters, he does not see how he can acquit himself of the subject without trespassing again on the patience of the reader by adding one supplementary letter.

No sooner did the Priory (perhaps much out of repair at the time) become an appendage to the college, but it must at once have tended to swift decay. Magdalen College wanted now only two chambers for the chantry priest and his assistant; and therefore had no occasion for the hall, dormitory, and other spacious apartments belonging to so large a foundation. The roofs neglected, would soon become the possession of daws and owls; and, being rotted and decayed by the weather, would fall in upon the floors; so that all parts must have hastened to speedy dilapidation and a scene of broken ruins. Three full centuries have now passed since the dissolution; a series of years that would craze the stoutest edifices. But, besides the slow hand of time, many circumstances have contributed to level this venerable structure with the ground; of which nothing now remains but one piece of a wall of about ten feet long, and as many feet high, which probably was part of an out-house. As early as the latter end of the reign of Hen. VII.
we find that a farm-house and two barns were built to the south of the Priory, and undoubtedly out of it's materials. Avarice again has much contributed to the overthrow of this stately pile, as long as the tenants could make money of it's stones or timbers. Wantonness, no doubt, has had a share in the demolition; for boys love to destroy what men venerate and admire. A remarkable instance of this propensity the writer can give from his own knowledge. When a schoolboy, more than fifty years ago, he was eye-witness, perhaps a party concerned, in the undermining a portion of that fine old ruin at the north end of Basingstoke town, well known by the name of Holy Ghost Chapel. Very providentially the vast fragment, which these thoughtless little engineers endeavoured to sap, did not give way so soon as might have been expected; but it fell the night following, and with such violence that it shook the very ground, and, awakening the inhabitants of the neighbouring cottages, made them start up in their beds as if they had felt an earthquake. The motive for this dangerous attempt does not so readily appear: perhaps the more danger the more honour, thought the boys; and the notion of doing some mischief gave a zest to the enterprize. As Dryden says upon an other occasion,

"It look'd so like a fin it pleas'd the more."

Had the Priory been only levelled to the surface of the ground, the discerning eye of an antiquary might have ascertained it's ichnography, and some judicious hand might have developed it's dimensions. But, besides other ravages, the very foundations have been torn up for the repair of the highways: so that the site of this convent is now become a rough, rugged pasture-field, full of hillocks
h hillocks and pits, choaked with nettles, and dwarf-elder, and
trampled by the feet of the ox and the heifer.

As the tenant at the Priory was lately digging among the
foundations, for materials to mend the highways, his labourers
discovered two large stones, with which the farmer was so pleased
that he ordered them to be taken out whole. One of these proved
to be a large Doric capital, worked in good taste; and the other a
base of a pillar; both formed out of the soft freestone of this dis-
trict. These ornaments, from their dimensions, seem to have be-
longed to massive columns; and shew that the church of this convent
was a large and costly edifice. They were found in the space
which has always been supposed to have contained the south transept of the Priory church. Some fragments of large pilasters
were also found at the same time. The diameter of the capital
was two feet three inches and an half; and of the column, where
it had stood on the base, eighteen inches and three quarters.

Two years ago some labourers digging again among the ruins
found a sort of rude thick vase or urn of soft stone, containing
about two gallons in measure, on the verge of the brook, in the very
spot which tradition has always pointed out as having been the
site of the convent kitchen. This clumsy utensil *, whether in-
tended for holy water, or whatever purpose, we were going to
procure, but found that the labourers had just broken it in pieces,
and carried it out on the highways.

* A judicious antiquary, who saw this vase, observed, that it possibly might have
been a standard measure between the monastery and its tenants. The priory we have
mentioned claimed the allowance of bread and beer in Selborne manor; and probably the
adjutment of dry measures for grain, &c.
The Priory of Selborne had possessed in this village a Grange, an usual appendage to manorial estates, where the fruits of their lands were stored and laid up for use, at a time when men took the natural produce of their estates in kind. The mansion of this spot is still called the Grange, and is the manor-house of the convent possessions in this place. The author has conversed with very ancient people who remembered the old original Grange; but it has long given place to a modern farm-house. Magdalen College holds a court-leet and court-baron in the great wheat-barn of the said Grange, annually, where the President usally superintends, attended by the burser and steward of the college.

The following uncommon presentment at the court is not unworthy of notice. There is on the south side of the king's field, (a large common-field so called) a considerable tumulus, or hillock, now covered with thorns and bushes, and known by the name of Kite's Hill, which is presented, year by year, in court as not ploughed. Why this injunction is still kept up respecting this spot, which is surrounded on all sides by arable land, may be a question not easily solved, since the usage has long survived the knowledge of the intention thereof. We can only suppose that as the prior, besides thurift and pillory, had also furcas, a power of life and death, that he might have reserved this little eminence as the place of execution for delinquents. And there is the more reason to suppose so, since a spot just by is called Gally [Gallows] hill.

* The time when this court is held is the mid-week between Easter and WhitComputeTide.

The lower part of the village next the Grange, in which is a pond and a stream, is well known by the name of Gracious-Street, an appellation not at all understood. There is a lake in Surrey, near Chobham, called also Gracious-pond: and another, if we mistake not, near Hedleigh, in the county of Hants. This strange denomination we do not at all comprehend, and conclude that it may be a corruption from some Saxon word, itself perhaps forgotten.

It has been observed already, that Bishop Tanner was mistaken when he refers to an evidence of Dodsworth "De mercatu et FERIA de Selborne." Selborne never had a chartered fair; the present fair was set up since the year 1681, by a set of jovial fellows, who had found in an old almanack that there had been a fair here in former days on the first of August; and were defirous to revive so joyous a festival. Against this innovation the vicar set his face, and persisted in crying it down, as the probable occasion of much intemperance. However the fair prevailed; but was altered to the twenty-ninth of May, because the former day often interfered with wheat-harvest. On that day it still continues to be held, and is become an useful mart for cows and calves. Most of the lower house-keepers brew beer against this holiday, which is dutied by the exciseman; and their becoming victuallers for the day without a licence is overlooked.

Monasteries enjoyed all sorts of conveniencies within themselves. Thus at the Priory, a low and moist situation, there were ponds and stews for their fish: at the same place also, and at the Grange in Culver-croft, there were dove-houses; and on the hill opposite to the Grange the prior had a warren, as the names of The Coney-crofts and Coney-croft Hanger plainly testify.

Culver, as has been observed before, is Saxon for a pigeon.

A warren was an usual appendage to a manor.
Nothing has been said as yet respecting the tenure or holding of the Selborne estates. Temple and Norton are manor farms and freehold; as is the manor of Chapel near Oakbanger, and also the estate at Oakbanger-house and Black-moor. The Priory and Grange are leasehold under Magdalen college, for twenty-one years, renewable every seven: all the smaller estates in and round the village are copyhold of inheritance under the college, except the little remains of the Gurdon-manor, which had been of old leased out upon lives, but have been freed of late by their present lord, as fast as those lives have dropped.

Selborne seems to have derived much of its prosperity from the near neighbourhood of the Priory. For monasteries were of considerable advantage to places where they had their sites and estates, by causing great resort, by procuring markets and fairs, by freeing them from the cruel oppression of forest-laws, and by letting their lands at easy rates. But, as soon as the convent was suppressed, the town which it had occasioned began to decline, and the market was less frequented; the rough and sequestered situation gave a check to resort, and the neglected roads rendered it less and less accessible.

That it had been a considerable place for size formerly appears from the largeness of the church, which much exceeds those of the neighbouring villages; by the ancient extent of the burying ground, which, from human bones occasionally dug up, is found to have been much encroached upon; by giving a name to the hundred; by the old foundations and ornamented stones, and tracery of windows that have been discovered on the north-east side of the village; and by the many vestiges of diffused fishponds still to be seen around it. For ponds and stews were multiplied in the times of popery, that the affluent might enjoy some variety
OF SELBORNE.

variety at their tables on fast days; therefore the more they abounded the better probably was the condition of the inhabitants.

More particulars respecting the old family tortoise, omitted in the Natural History.

Because we call this creature an abject reptile, we are too apt to undervalue his abilities, and depreciate his powers of instinct. Yet he is, as Mr. Pope says of his lord,

— — — "Much too wise to walk into a well:"

and has so much discernment as not to fall down an haha; but to stop and withdraw from the brink with the readiest precaution.

Though he loves warm weather he avoids the hot sun; because his thick shell, when once heated, would, as the poet says of solid armour—"scald with safety." He therefore spends the more sultry hours under the umbrella of a large cabbage-leaf, or amidst the waving forests of an asparagus-bed.

But as he avoids heat in the summer, so, in the decline of the year, he improves the faint autumnal beams, by getting within the reflection of a fruit-wall: and, though he never has read that planes inclining to the horizon receive a greater share of warmth,
warmth *, he inclines his shell, by tilting it against the wall, to collect and admit every feeble ray.

Pitiable seems the condition of this poor embarrased reptile: to be cased in a suit of ponderous armour, which he cannot lay aside; to be imprisoned, as it were, within his own shell, must preclude, we should suppose, all activity and disposition for enterprise. Yet there is a season of the year (usually the beginning of June) when his exertions are remarkable. He then walks on tiptoe, and is stirring by five in the morning; and, traversing the garden, examines every wicket and interfice in the fences, through which he will escape if possible: and often has eluded the care of the gardener, and wandered to some distant field. The motives that impel him to undertake these rambles seem to be of the amorous kind: his fancy then becomes intent on sexual attachments, which transport him beyond his usual gravity, and induce him to forget for a time his ordinary solemn deportment.

* Several years ago a book was written entitled "Fruit-walls improved by inclining them to the horizon:" in which the author has shewn, by calculation, that a much greater number of the rays of the sun will fall on such walls than on those which are perpendicular.
OF SELBORNE.

OF all the propensities of plants none seem more strange than their different periods of blossoming. Some produce their flowers in the winter, or very first dawning of spring; many when the spring is established; some at midsummer, and some not till autumn. When we see the helleborus fætidus and helleborus niger blowing at Christmas, the helleborus hyemalis in January, and the helleborus viridis as soon as ever it emerges out of the ground, we do not wonder, because they are kindred plants that we expect should keep pace the one with the other. But other congenerous vegetables differ so widely in their time of flowering, that we cannot but admire. I shall only instance at present in the crocus fætivus, the vernal, and the autumnal crocus, which have such an affinity, that the best botanists only make them varieties of the same genus, of which there is only one species; not being able to discern any difference in the corolla, or in the internal structure. Yet the vernal crocus expands its flowers by the beginning of March at farthest, and often in very rigorous weather; and cannot be retarded but by some violence offered:—while the autumnal (the Saffron) defies the influence of the spring and summer, and will not blow till most plants begin to fade and run to seed. This circumstance is one of the wonders of the creation, little noticed, because a common occurrence; yet ought not to be overlooked on account of
of it's being familiar, since it would be as difficult to be explained as the most stupendous phænomenon in nature.

Say, what impels, amidit surrounding snow  
Congeal'd, the crocus' flamy bud to glow?  
Say, what retards, amidit the summer's blaze,  
Th' autumnal bulb, till pale, declining days?
The God of Seasons; whose pervading power  
Controls the sun, or sheds the fleecy shower:  
He bids each flower his quick'ning word obey;  
Or to each lingering bloom enjoins delay.

APPENDIX.
APPENDIX,
No. I.

No. 6.

Carta Petri et conventus ecclesie Winton. pro fundatione prioratus de Seleburne, &c. dat. 1233.

Omni bus Christi fidelibus ad quos prefens scriptum pervenerit. P. divina miseratione Winton ecclesie minifler humilis salutem in Domino: Ex officio pastorali tenemur viros religiosos, qui pauperes spiritu esse pro Christo neglectis lucris temporalibus elegerunt; spirituali affectu diligere, sovere pariter et creare, eorumq; quieti sollicitate providere; ut tanto uberiores fructus de continua in lege Dei meditatione percipiant, quanto a conturbationibus malignorum amplius fuerint ex patroni provisione et ecclesiastica defensione securi. Hinc est quod universitati vestrer notificamus, nos divine caritatis instinetu, de affensu conventus ecclesie nostre Winton, fundasse domum religiosam, ordinis magni patris Augustini, in honore Dei et gloriose semper virginis ejusdem Dei generetris Marie,
APPENDIX.

Marie, apud Seleburne; ibidemque canonicos regulares instituisse: ad quorum sustentationem et hospitum et pauperum susceptionem, dedimus, concessimus, et presenti carta nostra confirmavimus eisdem canonicis, totam terram quam habuimus de dono Jacobi de Acangre: et totam terram, cursum aque, boscum et pratum que habuimus de dono Jacobi de Nortone; et totam terram boscum et redditum que habuimus de dono domini Henrici regis Anglie; cum omnibus predictarum possessionum pertinentiis. Dedimus etiam et concessimus in proprios usus eisdem canonicis ecclesiis predicte ville de Seleburne, et ecclesiis de Bosling, et de Bosinge-\textit{flok}, cum omnibus earundem ecclesiis capellis, libertatis, et aliis pertinenciis; salva honesta et sufficienti sustentatione vicariorum in predictis ecclesiis ministrantium; quorum presentatio ad priorem predicte domus religiosa de Seleburne et canonicos eijdem loci in perpetuum pertinebit. Preterea possessiones et redditis, ecclesiis sive decimas, quas in episcopatu nostro adempti sunt, vel in posterum, Deo dante, juistis modis poterunt adipisci, sub nostra et Winton ecclesiis protectione suscepimus, et episcopalis auctoritate officii confirmavimus; eadem auctoritate firmiter inhibentes, ne quis locum, in quo divino sunt officio mancipati, seu alias eorum possessiones, invadere vi vel fraude vel ingenio malo occupare audeat, vel etiam retinere, aut fratres conversos, servientes, vel homines eorum aliqua violentia perturbare, sive fugientes ad eos caula salutis fuerit conservande a septis domus fuerit violenter prefumat extraere. Precipimus autem ut in eadem domo religiosa de Seleburne ordo canonicus, et regularis conversatio, secundum regulam magni patris Augustini, quam primi inhabitatores profezzi sunt, in perpetuum observetur; et ipsa domus religiosa a cujuslibet alterius domus religiosae subjectione libera permaneat, et in omnibus absoluta; salva in omnibus
omnibus episcopali auctoritate, et Winton ecclesie dignitate. Quod
ut in nofterum ratum permaneat et inconcussum, prefentis scripto
et sigilli noftri patrocinis duximus confirmandum. His testibus
domino Wally abbate de Hyda. Domino Walters Priore de
sancto Swithuno, domino Stephano priore de Motesfonte, magistro
Alano de Stoke; magistro Willo de sancte Marie ecclesia, tunc
officiali noftror; Luca archidiacon' de fur'. magistro Hamfrido de
Millers, Henrico & Hugone capellanis, Roberto de Clinchamp, et Petro
Raffinol clericis, et multis alius. Datum apud Wines a per manum
P. de cancellis. In die sanctorum martrum Fabiani et Sebastiani.
Anno Domini millésimo ducentésimo tricesimo tercio.

Seal, two saints and a bishop praying:
Legend: SVI. M. SITE. BONI. PETR' PAVL' E PATRONI.

a Probably Wolvsey-houfe near Winchester.

K k k (Ni 108.)
APPENDIX.

NUM BER II.

(Ni 108.)

Carta petens licentiam eligendi prelatum a Domino Episcopo Wintoniensii.

De functo prelato forma petendi licentiam eligendi.

Domino et patri in Christo reverendo domino & P. Dei gratia Wintoniensii episcopo, devoti sui filii suprior monasterii de S. Wintoniensis dioecesos salutem cum subjectione humili, reverentiam, et honorem. Monasterio nostro de S. in quo sub protectione vestra vivimus, sub habitu regulari, Prioris solacio destituto per mortem bone memorie, &c. quondam Prioris nostri, qui tali hora in aurora diem clauñit extremum, vestre paternitati reverende et dominationi precipue istum nostrum et nostri monasterii cañum flebilem cum merore nunciamus; ad vestre paternitatis refugium fratres nostres A. et C. canonicos delinantes, rogando et petendo devote quatenus nobis dignemini licenciam tribuere, ut monasterio predicto, Prioris regimine destituto, providere possimus, invocata Spiritus sancti gratia, per electionem canonicam de Priore. Actum in monasterio predicto 5 kalend. &c. anno Domini, &c. Valeat reverenda paternitas vestra semper in Domino.

Forma:
Forma licenci conceffe.


Forma decreti post electionem conficiendi.

In nomine Domini nostri Ihesu Christi, Amen. Monasterio beate Marie talis loci Winton. dioc. solacio defituto per mortem R. quondam Prioris ipsius; ac corpore ejus, prout moris est, ecclesiasfice sepulture commendato; petitæ cum devociæ licentia per fratres K. et . canonicos a ven: in Christo patre et domino domino P. Dei gratia Wintoniensis episcopo ejusdem monasterii patrono, eligendi priorem, et optenta; die dato, a toto capitolo ad eligendum vocati fuere evocandi, qui debuerunt, voluerunt, et potuerunt comode electioni prioris in monasterio predicto interesse: omnes canonici in capitulo ejusdem ecclesiæ convenerunt tali die, anno Dom. &c. ad tractandum de electione sui prioris facienda; qui, invocata Spiritus Sancti gratia, ad procedendum per formam scrutinii concientes.
Modus procedendi ad electionem per formam scrutinii.

OMNIBUS in capitolo congregatis qui debent volunt et possunt comode interesse electioni eligendi sunt tres de capitulo a non nostro obedientias ores b, qui erunt scrutatores, et fede bunt in angulo capituli; et primo requirent vota sua propria, videlicet, duo re quirent tertium et duo alterum, &c. dicendo sic, "Frater P. in quem concentis ad eligendum in prelatum nostrum?" quibus examinatis, et dictis eorum per vicem ex iphis in scriptura redactis, vocabunt ad se omnes fratres sigillatim, primo suppr iorem, &c. Et unus de tribus examineribus scribet dictum cujuslibet. Celebrato scrutinio, publicare db coram omnibus. Facia ptmodi conscensium collectione apparebit in quem pars major capituli et sanior concentit; quo viso, major pars dicit minori, "Cum major pars et sanior capituli nostri concenci in fratem R. ipse est eligendus, unde, si placet, ipsum communiter eligam us;" si vero omnes acquieverint, tunc ille qui majorem vocem habet in capitolo surgens dicit, "Ego frater R. pro toto capitulo eligo fratem R. nobis in pastorem;" et omnes dicient; "Placet nobis." Et incipient, "Te Deum laudamus." Si vero in unum concordare nequiverint, tunc hiis, qui majorem vocem habet inter illos qui majorem et sanior partem capituli constituerint, dicit, "Ego pro me et illis qui mecum concenciunt in fratem R. eligo ipsum in," &c. Et illi dicient, "Placet nobis," &c.

a Fratres canonici. See Forma decreti, &c.
b Obedientiores sc. more regular. In virtute obedientiæ occurs in Not. Vift.
Forma rite presentandi elecutum.

Reverendo in Christo patri et domino domino P. Dei gratia Winton. episcopo devoti sui filii frater R. Supprior conventualis beate Marie de tali loco, et ejusdem loci Conventus, cum subjectione humili, omnem obedientiam, reverenciam, et honorem. Cum conventualis ecclesia beate Marie talis loci, in qua sub protectione vestra vivimus sub habitu regulari, per mortem felicis recordationis R. quondam prioris nostris defituta ecclesia priore, qui 6° kalend. Jul. in aurora anno Dom. &c. diem clausit extremum; de corpore ejus, prout moris est, ecclesiastice tradito sepulture; petita a vobis, tanquam a Domino, et vero ejusdem ecclesie patrono et pastore, licencia eligendi priorem et optenta; convenientibus omnibus canonicis predicite ecclesie in capitulo nostro, qui voluerunt debuerunt et potuerunt comode electioni nostrre interesse, tali die anno Dom. supradito, invocata Spiritus Sancti gratia, fratem R. de C. ejusdem ecclesie canonice unanimi assignatu et voluntate in priorem nostrum, ex puris votis singularum, unanimiter eligimus. Quem reverende paternitati vestre et dominacioni precipue Priorem vero patrono nostro et pastore confermandum, si placet, tenore presentium presentamus; dignitatem vestram humiliter et devote rogantes, quatenus, dixte electioni feliciem prebere volentes assignamus, eadem R. electo nostro nunc confirmabitis, et quod vestrum est pastoralis solicitudine impendere dignemini. In cujus rei testimonium presentes litteras sigillo capituli nostri signatas paternitati vestre transmittimus. Valeat reverenda paternitas vestra semper in Domino. Datum tali loco die et anno supradito. Omnes et singuli, per fratres A. B.
A. B. et C. ejusdem ecclesie canonicos de voluntate tocius conventus ad inquirenda vota singulorum constitutos, secreto et singillatim requisiti; tandem publicato scrutinio et facta votorum colleotione inventum est, majorem et seniorem partem tocius capituli dicide ecclesie in fratrem S. de B. dicide ecclesie canonicum unanimiter et concorditer concensisse; vel sic, quando inventum omnes canonicos dicide ecclesie preter duos in fratrem, A. D. quibus statim majori parti eligendum adquiescenter: frater k. suprior ecclesie memorate, juxta potestatem sibi a toto conventu traditam, vice confociorum suorum et sua ac tocius conventus, dictum fratrem S. de B. in priorem ejusdem ecclesie elegit, sub hac forma; "Ego frater supprior conventualis ecclesie beate "Marie talis loci, potestate et auttoritate mihi a toto conventu "dicide ecclesie tradita et commissa, quando, publicato scrutinio "et omnibus circa hoc rite peractis, inveni majorem et partem "seniorem tocius capituli nostri in fratrem S. de B. virum "providum unanimiter concensisse, ipsum nobis et ecclesie nostro, "vice tocius conventus, in priorem eligendum; et eidem elec- "tioni subscribo; cui electioni omnes canonici nostri concensce- "runt, et subscripserunt."—"Ego frater de C. presenti elec- "tioni concenscio, et subscribo." Et sic de singulis electoribus; in cujus rei testimonium sigillum capituli nostri apponi fecimus ad presentes.
APPENDIX.

NUM BER III.

Visitatio Notabilis de Seleburne.

1387.

WILLMUS permissione divina Winton Episcopus dilectis filiis Priori et Conventui Prioratus de Selborne Ordinis S.ii. Augustini, nostrae dioecesos, Salutem, gratiam, et bene. Suscepti regiminis cura pastoralis officii nos inducit invigilare solicite nostrorum remediiis subjectorum, et eorum obviare periculos ac scandala removere; ut sic de vinea domini per cultoris providi fæculum vicia extirpentur inferantur virtutes, excessus debite corrigitur, et subditorum mores in nimium prolapsorum per appositionem moderaminis congrui reformentur: Hanc nempe sollicitudinem nostrae humeri incumbarum affidua meditacione pensantes, ne sanguis vester de manibus nostris requiratur, ad vos et vestrum Prioratum supradicium, prout nostro incumbebat officio pastorali, nuper ex cultura descendimus visitandi; et dum inter vos nostre visitacionis officium iteratis vicibus actualiter exercimus, nonnulla reperimus que non solum obviat regularibus institutis, verum eciam que religioni vestre non congruent, nec conveniunt honestatibus;
APPENDIX.

tati; ad quæ per nostrum antidotum debite reformanda opem et operam prout expedit et oportet apponimus, quas credimus efficaces, infra scripta sibiædem precepta nostra pariter et decreta, sanctorum patrum constitucionibus editis et debite promulgatis canoniciæque ac regularibus institutis fulce, obis nostri figuli robórate munimine transmittimus, inter vos futurus temporibus efficacity observanda, quatinus ad Dei laudem, divini cultus ac ventæ religionis augmentum, ipsis mediantibus, per viam salutis feliciter incédatis; mores et actus vestri abstrabantur anxiis, et ad salutaria dirigantur.

No. I. In primis ut Domino Deo nostro, a quo cuncta bona procedunt, et omnis religio immaculata fumpit exordium, in Prioratu vestro prædicto serviatur laudabiliter in divinis; Vobis, in virtute sanctæ obediencie ac sub majoris excommunicationis sententiae pena, firmiter injungendo mandamus, quatinus hore canonice, tam de nocte quam de die, in choro a conventu cantentur; missæ quoque de beata Maria et de die, necnon missæ alie consuetæ horis et devocione debitis et cum moderatis pausacionibus celebrantur: nec liceat aliqui de conventu ab horis et missis hujusmodi se absentare, aut, postquam inceptæ fuerint, ante complecionem earum ab ipsis recedere quovis modo; nisi ex causa necessaria vel legítima per priorem vel suppriorem aut alium presidentem loci, ut convenit, approbanda; in quo caufu iporum omnium conscientias apud altissimum arclius oneramus; contrarium vero facientes in proximo tunc capitulo celebrando absq accepção qualibet perfonarum regularem subcant disciplinam; acris insuper puniendi si contraumacia vel pertinacia delinquencium hoc expofcat; si quis vero post trinam correpcionem debite se non correxerit in premisfis, pro singulis vicibus quibus contrarium fecerit ipsum singulis sextis feriis in pane et aqua dumtaxat precipimus jejunare.

No. II. Item
APPENDIX. 443

No. II. Item quia in visitatione nostra predicta commperimus evidentem quod silencium, quasi in exilio positum, ad quod juxta regulam S. Augustini efficaciter estis affecti, locis et temporibus debitior inter vos minime observatur contra observancias regulares; Vobis omnibus et singulis firmiter injungendo mandamus, quatinus silencium, prout vos decet, regula supradicta, de cetero locis et temporibus kujusmodi observetis; a vanis et frivolis colloquiiis, ficut decet, vos penitus abstinendo: illos vero, qui silencium kujusmodi in locis predictis non observaverint, animadversione condigna precipimus castrigari; et, si quis tercio super hoc legitime convictus fuerit, preter regularem disciplinam, die, quo debite silencium non tenuerit, pane et servicia dumtaxat et legumine fit contentus.

No. III. Item quia nonnulli concanonici et confratres prioratus vestri predicti validi atq; sani et in fiscerdocio constituti celebracionem missarum absq; causa legitima indebite ac minus voluntarie multociens, ut dicitur, negligunt et omittunt; fundatorum aliorumq; benefactorum suorum animas, pro quibus sacrificia offerre tenentur, suffragis nequiter defraudando; Vobis, ut supra, firmiter injungendo mandamus, quatinus vos omnes et singuli Prioratus predicti concanonici et confratres in fiscerdocio constituti frequenter confitemini confessoresibus per Priorem deputandis; quos quidem confessores discretos et idoneos, prout numerus personarum dicti conventus exigat, per vos dominum Priorem predictum precipimus deputari; misfalsque, impedimento cessante legitimo, tam pro vivis quam pro defunctis, pro quibus orare tenemini, de cetero, quanto frequentius poteritis, celebretis devocius, ficut decet; impedimentum vero predictum cum contigerit Priori vel Suppriori Prioratus predicti per illud pacientes infra triduum declarari volumus et exponi, ac per eorum alterum

L 11 prout
prout juftum fuerit approbari, vel eciam reprobarsi; in quo caufa
ipsorum omnium tam exponencium quam approbancium apud
altissimum confciencias distriktius oneramus; contrarium velb
facientes, primo super hoc conviceti, proxima quarta feria se-
quenti in pane, servifia, et legumine; secundo vero conviceti feria
quarta et sexta sequentibus modo confimili; tercio vero conviceti
dictis feriis extunc sequentibus in pane et aqua jejunent, quonu-
que judicio prioris se correxerint in premiffis; flatuentes preterea
quod Prior et Supprior Prioratus prediceti contra bukusnodi delin-
quentes femel singulis mensibus diligenter inquirant, et quos
culpabiles invenerint in premiffis modo predicto fteudeant
catifcare.

No. IV. Item quia transitus communis secularium personarum
utriusque sexus per claustrum Prioratus vettri in congruis tem-
poribus minime exercetur, et potissime horis illis quibus fratres de-
convertu in contemplacione saneta studiis quoque ac lectionibus
variis inibi occupantur; unde disfloluciones plurime provenerunt,
et poterunt in futuro verifimiliter provenire, ac ipsorum fratrem
quieta et religionis honeftati plurimum derogatur: Vobis ut
supra arcius injungendo mandamus, quatinus, cum secundum
regulam saneti Augustini converfacione vetstra debeat effe a se-
cularibus bukusnodi separata, ad animarum ac eciam rerum
pericula, que poiffent et solent ex concurfu bukusnodi provenire,
caucus evitanda; transitum communem predictum per prefatum
claustrum de cetero fieri nullatenus permittratis, per quem vetira
devocio et religionis honeftas vulneram vel eciam impediri
valeant quovismodo, sub pena excommunicacionis majoris quam
in contravenientes intendimus canonice fulminare: illum vero, ad
quem ostiorum claustri cuftodia pertinet, fi propter illius neglig-
egenciam five culpam transitus bukusnodi suflineatur indebite, ut
presfertur;
APPENDIX.

prefertur; pro singulis vicibus, quibus hoc factum fuerit, singulis quartis feris in pane, servissa, et legumine dumtaxat jejunet; et, si nec sic se correxerit debite in hac parte, ab officio deponatur, ac alius, magis providus, loco suo celeriter subrogetur.

No.V. Item quia ooftia ecclesie atq; claustri prioratus vestri predicti non servantur nec servaturs temporibus debitis, nec modo debito, ut deceret; sed custodia eorundem agitur et omittitur multociens negligenter; adeo quod suspele persone et alie inbonefte per ecclesiam et claustrum bjuusmodi incedunt frequenter in tenebris atq; umbiris, temporibus eciam suspeatis et illicitis, indecenter;unde dampna et scandala varia pluries provenerunt, et im posterum verismiliter poterunt provenire; Vobis, ut supra, mandamus, firmiter injungentes, quatinus dicta ooftia de cetero claudi faciatis, et claufa per miniftros idones custodiri temporibus debitis, prout decret; vobis inhibentes expresse, ne ooftia ecclesie vestrre predicte, (illa videlicet que inter navem ipsius ecclesie et chorum ejufdem exiftunt) nec ooftia claustri que ducent ad extra, et per que introitus secularium in ipsum claustrum patere poterit, de manc, antequam prima incipiatur in choros; aut commenfionis tempore; nec eciam de fero, postquam conventus collationem inceperit; nisi in causa utili vel necessaria per priorem vel suppriorem, ut convenit, approbanda, aperiantur de cetero quovis modo: ad que fideliter exequenda facriítam, qui pro tempore fuerit, ad ejus officii premisía pertinent sub pena amocionis ab officio suo arcius oneramus, acrius per nos puniendum prout nobis videbitur expedire.

No.VI. Item quia nonnulli concanonici et confratres prioratus vestri minus sapiunt in lectura, non intelligentes quid legant, sed litteras quali pronfus ignorantes, dum psallunt vel legunt, accenyum breve pro longo ponunt pluries, et e contra; et per invia gradi-
entes sanum scripturarum intellectum adulterantur multociens, et pervertunt; itaque, ut dum scripturas sacras non sapiant, ad perpetrandum illicita proniores reddantur: Vobis Domino Priori in virtute obedientie, firmiter injungendo mandamus, quatinus, cum legere et non intelligere sit necegligere, noviciis et alis minus sufficienter literatis idoneis de cetero deputetur magister, qui ipsos in cantu et alis primitivis scieneciis instruat diligenter juxta regularia instituta; quatinus, in eisdem perfectius eruditi, cecitatis squamis et ignorancie nebulis depositis, que legant intelligant et agnosecant, et contemplandum clarius misteria Scripturarum efficientur, ut convenit, promiores.

No. VII. Item quia constituciones sive decretales Romanorum Pontificum vestrum ordinem concernentes, (ille videlicet de quibus in constitucionibus recolende memorie Domini Ottoboni, quondam sedis Apostolice in Anglia legate, fit mensio specialis) inter vos nullatenus recitantur, prout per constituciones ejusdem legati recitari mandantur; unde, dum decretales ipsas et contenta in eis penitus ignoratis, committitis multociens que prohibentur expressius per easdem in vestrarum periculum animarum: Vobis firmiter injungendo mandamus, quatinus, ne ignoranciam aliquam pretendere poteritis in hac parte, decretales predicatas, prout in prefatis domini constitucionibus Ottoboni plenius recitantur, in quodam quaterno seu volume absque more dispengio faciatis conscribi; ipsas bis singulis annis in vestro capitulo, juxta formam constitutionum dictarum, recitari clariis facientes, ad informacionem rudium et perfectionem eciam prorectorum; adjicientes preterea, ut magistri noviorum prefencium et eciam futurorum ipsos in regula S. Augustini diligenter instruant et informant, ipsam regulam eis vulgariter exponendo; quodque iidem novicel per frequentem recitationem ejusdem illam sciant quasi cordetenu, sicut in dictis constitucionibus
APPENDIX.

constitucionibus plenius continetur, per quam incedere poterint via recta et errorum tenebras caueius evitare: super executione vero premisserum debite facienda dominum priorem prioratus vestri predicti arceus oneramus quatinus ea que premimus in hoc cafu sub pena suspensiois ab ipfius officio per mensem diligencius exequatur.

No. VIII. Item quia canonici et confratres prioratus vestri predicti, ipsorum propriam voluntatem pocius quam utilitatem communem secentantes, non vestes necessarias, cum opus fuerit, sed certam et limitatam ac determinatam quantitatem peccunie, velut annuum redditum, pro vestibus levatas periplierunt annualim, contra regulam Sot. Augustini ac domini Ottoboni et aliorum sanctorum patrum canonica instituta; fitque, ut, dum effrenis illa religiosorum cupiditas, aliena specie colorata, vetita concupiscat, sancta religio, solutis constantie frenis, in luxum labentem ad latitudinis tramites que ducent ad mortem, misera-biliter noscitur declinare: cui quidem morbo pestifero, ne putrefcat et vermes generet corruptivos, mederi cicio cupientes nichil novi statuendo sed sanctorum patrum vestigiis inherendo, volumus ac eciam ordinamus, quod canonicit et confratribus memoratis prefentibus et futuris de bonis et facultatibus communibus prioratus vestri predicti vestris uibus deputatis vestes et calcimenta, cum indiguerint, necessaria, juxta facultates predictas, et nullo modo peccuniam, pro eisdem, per eos qui super his ministrandi gerent officium de cetero ministrentur; vestes vero inveteratas et ineptas levatas kujusmodi canonicerum camerario communibus tradi volumus pauperibus erogandas juxta regulam Sot. Augustini, et alias canonicas sanctiones contrarium vero facientes, si camerarius fuerit, penam suspensionis ab officio ipsum incurre re volumus ipso facto; si vero alius canonicus de conventu excisit, preter alias
alias muis regulares tam peccunia quam eciam indumentis novis careat illo anno.

No. IX. Item quia nonnulli canonici et confratres Prioratus vesti predicti opportunitate captata, extra septa Prioratus absque societate honesta, evagandi causa, nulla super hoc optenta licencia, se transferunt pluries indecenter; alii preterea provectiores certis officiis deputati ad maneria et loca alia officii bujusmodi assignata equitant, quando placet, ibidem manentes pro eorum libito voluntatis, nullo canonico ipsis in socium assignato, contra ordinis decensionem et religionis eciam honestatem, constitutioneque Sanctorum Patrum editas in hac parte: Cum igitur religiosos extra eorum Prioratum fac vagari aut in eorum maneriis vel ecclesiis eis appropriatis soli manere expresse prohibeat canonica instituta; nos, premista fieri de cetero prohibentes. Vobis firmiter injunctione mandamus, quatinus, cum aliquis Prioratus vestri canonicus vel confrater super vel pro negociis propriis vel eciam communibus exire contigerit, prius ad hoc a Priore vel Suppriore, si presentes in Prioratu fuerint, alioquin, ipsis absentibus, ab ipso qui protunc conventui precesse contigerit, licenciam habeat specialis; cui assignari volumus unum canonicum in socium, ne suspicio finistra vel scandalum oriatur; qui, associata eisdem juxta qualitatem negotii cometiva honesta, in eundo et eciam redeundo gravitate servata modestius semper incedant, et explevis negociis ad Prioratum cius rei revertantur, que regularibus conveniunt instiluitis devocius impleturi: contrarium vero facientes, absque remissione seu acceptione qualibet personarum, regularem subeant disciplinam; super quo presidencium conventus conscientias arcius oneramus, ipsoque nichilominus pro singulis vicibus, quisbus exceperint in premisissis, singulis sextis seissis in pane et aqua jejunent;
jejunent; et si officiarius fuerit, ipso facto, si aliquod canonicum non obsistat, ab ipsius officio sit suspensus.

No. X. Item quia comperimus evidenter, quod nonnulli canonici domus vestre, secundum carnem pocius quam secundum spiritum dissolute viventes, nulla causa racionabili subsistente, nudi jacent in lecitis absque femoralibus et camissis centra eorum observancias regulares; Vobis igitur fermiter injungendo mandamus, quatinus vos omnes et singuli canonici S. Auguftini regulam et in ea parte ordinis vestri canonica instituta de cetero efficaciter observetis: contrarium vero facientes singulis quartis feriis in pane, servitia, et legumine tantummodo sint contenti; si quis vero post trinam correptionem reus inventus fuerit in hac parte pro singulis vicibus singulis extunc feriis textis in pane et aqua hunc precipimus jejunare; Priorem vero ac Suppriorem domus prediciæ sub pena suspensionis ab officiis eorum onerantes, quatinus super premissis sepius et diligentier inquirant, et quos culpabiles invenerint eos penis prediciæ percellere non postponant.

No. XI. Item quia nonnullos canonicos et confratres Prioratus vestri prediciæ publicos reperimus venatores ac venacionibus hujusmodi spreto jugo regularis observancias, publice intendentes, ac canes tenentes venaticos, contra regularia instituta; unde dissolutiones quamplures, animarum pericula corporumque, ac rerum dispensia multociens oriantur; nos volentes hoc frequens vicium a Prioratu prediciæ radicitus extirpare; Vobis omnibus et singulis tenore presencium inhibemus, vobis nicipitominus firmiter injungentes, ne quisquam canonicorum Prioratus vestri prediciæ publicis venacionibus vel clamosis ex propofito intendere de cetero, vel eciam interesse; canesve venaticos per se vel alios tenere presumat, publice vel occulte, infra Prioratum vel extra, contra formam.
formam capituli, "Ne in agro dominico," et alias canonicas sanctiones; per hoc autem Prioratus vestri predicti nec juri vel confuetudini, quod vel quam habere dinofcitur, in ea parte non intendimus in aliquo derogare: contrarium vero facientes preter disciplinas et penas alias canonicas pro singulis vicibus singulis quartis et sextis feris in pane et servisæa jejunando precipimus cañigari.

No. XII. Item quia canonici Prioratus vestri predicti quibus officia forinsæca et intrinseca committuntur, fingunt se, cum possent et deberent in choro divinis officiis interessæ, in officiis hujusmodi fibi commissis multociens occupari, que possent ante vel post horas hujusmodi commode fieri, et eciam exerceri; propter quod cultus divinus minuitur, et alii claustraes nimium onerantur; Vobis in virtute sancte obedientie et sub pena excomunicacionis majoris firmiter insumendo mandamus, quatinus officiarii quicunque ecclesiæ vestœ predictœ in choro eujudem divinis officiis a modo personaliter interfint, nisi ex causa legitima officiorum suorum et per presidentem conventus, qui pro tempore fuerit, approbanda, eos contigerit absenterare; in quo caso de et super absencia sua legalitateque causarum pretensârum in hac parte ipforum presidenciae et officiorum conscientias apud altissimum dictiœtius oneramus.

No. XIII. Item, quia juxta sapientis doctrinam ubi majus iminet periculum, ibi cautius est agendum, volumus et eciam ordinamus, quod duo canonici diuersi et idonei de conventu Prioratus vestri predicti per ipsum conventum vel majorem partem eujudem annis singulis de cetero eligantur, qui bis in anno ad maneria, tam Priori quam eciam pro restitutione conventus hujusmodi ceteris que officiariis assignata, personaliter et transferant et
et accedant, statum maneriorum ipsorum tam in edificiis quam eciam in stato vivo vel mortuo plenarie supervisuri; quique super his que invenerunt in eisdem conventui supradicto relationem fidelem in scriptis, ut convenit, facere teneantur; ut, si mors alicujus officiarii vel caeus ilius fortuitus evenerit, de statu officii hujusmodi cujuscumque conventum non lateat memoratum; præmissa vero vobis precipimus efficaciter observanda sub pena nostro arbitrio limitanda, vobis, si in hiis neelegentibus fueritis vel remissi, acrius infligenda.

No. XIV. Item quia solitus et antiquus numerus canonicerorum in Prioratu vestis predici, quod dolenter referimur, adeo jam decrevit, ac eciam minuitur in presenti, quod ubi xiii. canonici vel circiter in habitu et observancis regularibus in dicto Prioratu folabant Altissimo devocius famulari, (quibus de bonis et posseffionibus ipsius Prioratus vestri communibus que possidetis in vici et vestitu juxta decenciam ordinis regularis honorifice ac debite fuerat ministratum) modo vero undecim canonici dumtaxat existunt et serviunt in eodem; quo fit, ut dum regis regum cultum attenuet cohabitancium paucitas, contra multiformis nequitiae hostem minuatur exercitus bellatorum: Cum igitur juxta prefati domini Ottoboni constitutiones aliorumque sanctorum patrum canonica institia, canonicerorum antiquus numerus sit servandus, ac juxta sapientis doctrinam “In multitudine “ populi sit dignitas regis, et in paucitate plebis ignominia “ principis accendatur;” Vobis in virtute sancte obedientie ac sub pena majoris excomm. firmiter injuniendo mandamus, quatiquinarius, cum omni diligentia et celeritate debitis, de viris idoneis religioni dispositis, et honestis vobis absque more dispensio providere curetis; ipfos in ordinem vestrum regularem in supplicacionem
cionem majoris numeri requiri, seu saltem illius numeri canonici orum ad quorum suftentacionem congruam, aliis oneribus vobis incumbentiibus debite supportatis, vestre jam habite suppetunt factitates; super quibus vestram et cujuslibet vestrum conscientiam arcius oneramus; celerius admittentes, ad augmentum cultus divini et perfectionem majorem ordinis regularis, pro fundatoribus et benefactoribus vestris devocius, ut convenit, intercessuros.

No. XV. Item quia comperimus evidenter quod vos, domine Prior, cui ex debito vestri officii hoc incumbit, de proprietariis canoniciis Prioratus vestri predicti, juxta constitutiones domini legati editas in hac parte, inquisitionem debitam haec tenueris non recissis, ministerium vobis creditum in ea parte necligentius omitendo; quo sit, ut ille peltifer hostis antiquus pastoris considerans continuatam defideam oves miseris et errantes, ipius hostis nequissimi fraude deceptas in fitim avarici prolantes laqueo proprietatis seduxit, contra factionem patrum canonica instituta, in suavem grave periculum animarum; Vos igitur requirimus et monemus, vobisque in virtute obedientie firmer in jungendo mandamus, quatenus dixi legati constitutiones, ut convenit, imitantis super proprietariis haud modo saltim bis in anno inquisitionem faciatis de cetero diligentem; ipsos, si quos inveneritis, animadversione condigna juxta regularia instituta canonice punientes; si vero id adimpletere neclexentes, administracione vestra, ipso facto noveritis vos privatum, donec premiifla fueritis diligententer executi, prot in consit. homini octo boni legati prediceti plenius continentur.

No. XVI. Item, cum secundum consit, dixi legati et aliorum factionem patrum canonica instituta, abbates et priores, proprios abbates non habentes, nec non officiarii quie nunque teneantur bis saltim singulisannis presente toto conventu vel aliquaibus ex senioribus ad hoc a capitulo deputatis de statu Prioratus et de administrazione
APPENDIX

ministracione sua plenariam reddere rationem, quod tum in Prioratu vestrò predictò invenitius haçtensus non servatum, unde plura secundit incommoda, et vestrre utilitati communi plurimum derogatur; Vobis in virtute obedientie firmiter injungendo mandamus, quatinus præfati domini legati, domini videlicet Ottoboni, nee non bonae memorie domini Stephani quondam Archipiscopi Cant. conìlit. editas in hac parte, faciatis inter vos de cetero firmiter observari, sub pena suspensiónis officiorum ipsorum ab eorum bujusmodi officiis, dictique Prioris ab administratione sua, quam si premíssæ necleglexerint observare, ipso facto, donec id persecerint, se noverint incurriisse, prout in dictis confìlit. dìde Ottoboni plenius continentur.

No. XVII. Item quia in Prioratu vestrò predictò et ecclesiæ ejusdem ac in nonnullis domibus, edificiis, muris et clausuris ecclesiæ vestre prelibate, necnon maneriorum ipsius Prioratus certis diversis officiis deputatorum, quas et quæ precessorum et predecessorum vestrorum industria sumptuoso construxerat, quamplus enormes et notabiles sunt defectus, reparatione necessaria indigentes; unde statum ipsius Prioratus ac maneriorum predictorum deformitas occupat, et multa incommoda insecuntur; Vobis igitur in virtute obedientie firmiter injungendo mandamus, quatinus defectus bujusmodi, pro vestræ utilitate communi absque dilacionis incommodo, quaniceps poteritis, juxta virem reparari debite faciatis; aliquuin Priorem ceterosque officiarios quocumque, qui in premíssis neclegientes fuerint vel remissi, nisi infra sex mensès post notificationem prefencium fíbi factam ad debitam reparacionem defectuum bujusmodi se preparaverint, tum effecst, ipso facto ab officiis suis bujusmodi sint suspensi.

No. XVIII. Item, quia per vendiciones et concessiones liberacionem et corrodiarum haçtensus per vos factas, reperimus dictum Pri-
oratum multipliciter fore gravatum, adeo quod ea, que ad divini
cultus augmentum, suftentacionem pauperum, et infirmorum, pia
devocio fidelium erogavit, mercenariorum ceca cupiditas jam
absorbet; itaque, ut dum bona ejusdem Prioratus in alios usus
quam debitos, ne dixerimus in prophaos, nepharie convertantur,
aliiimo famulancium in eadem numerus minuitur, pauperes et
infirmi suis porcionibus, ac ipsa ecclesia divinis obsequiis nequiter
defraudantur, contra intentionem piissimam fundatorum, in ves-
trarum periculum animarum; Indemnitatit igitur ipsius ecclestie
vestre in hac parte debite providere, dictum quoque tam frequent
incommodum ab eadem radictus extirpare volentes, bone me-
morie domini Ottoboni legati predicti aliorumque sanctorum
patrum vestigiis inherentes; Vobis tenore prefencionis distictius
inhibitum, eciam sub pena excomm. majoris, ne corrodia,
liberationes, aut pensiones personis aliquibus imperpetuum vel ad
tempus vendatis de cetero, vel alicualiter concedatis, absque
notro confensu et licencia speciali; prefertim cum vendiciones
hujusmodi, que species alienacionis exiitunt, Prioratus vestri
predicti detrimentum procurent et enormem eciam generat lesionem;
qui vero contra hanc nostram inhibitionem aliud attemptare
presumpserit, nisi id quod sic presumpserit revocaverit, ab officio
uit suppenius prout in confit. domini Ottoboni clarius continetur.

No. XIX. Item quia quedam certe perpetue cantarie pro fun-
datoribus et aliis benefactoribus vestris tam in generes quam in
spece antiquitus constitutae per diversos presbyteros in Prioratu
vestro predicto debite celebrande, pro quibus plura donaria reci-
pptitis a multos retro aetis temporibus, ac eciam de prefenti, ut
asseritur, sunt subjactae, contra piam intentionem ac ordinacionem
eciam fundatorum, in vestrarum grave periculum animarum;
Vobis igitur, in virtute sancte obedientie ac sub majoris excom.

sentencie
fentencie pena, firmiter injungendo mandamus, quatinus cantarias predictas juxta formam institutionum et ordinacionum earum faciatis de cetero debite celebrari, ac eisdem congrue deserviri, si redditus et proventus ad hujusmodi cantarias antiquitus assignati ad hoc sufficiunt hiis diebus, alioquin prout redditus et proventus earum, alii omnibus eisdem incumbentibus debite supportatis, sufficiunt de presenti, dolo et fraude cefiantibus quibuscumque; super quo vestram conscienciam arcius oneramus, a modo deserviri debite faciatis.

No. XX. Item vobis et omnibus et singulis in virtute sancte obedientie ac sub majoris excom. fentencie pena firmiter injungendo mandamus, quatinus elemosinas in Prioratu vestro predicto antiquitus fieri consuetas, et eas ad quas tenemini ex ordinacione antiqua pro animabus fundatorum et aliorum benefactorum vestrorum juxta facultates vestras super quibus vestras consciencias arctius oneramus, prout divinam effugere volueritis ulcerem diatribui de cetero faciatis; precipientes preterea quod fragmenta seu reliquiae tam de aula Prioris quam eciam de refectorio proveniencià, absque diminueione qualibet, per elmosinarium vel ipsius locum tenentem integre colligantur, pauperibus fideliter eroganda; alioquin, si elmosinarius hujusmodi remisitus vel negligens fuerit in premisitis, penam suspenfionis ab officio fe noverit incurfurum.

No. XXI. Item quia debilibus et infirmis humanitatis preberi subcidium jubet caritas, et pietas interpella; Vobis domino Priori ceteris obedientiariis Prioratus vestri predicti, quorum intereft in hac parte in virtute sancte obedientie firmiter injungendo mandamus, quatinus contraatribus vestris debilibus et infirmis, iporum infirmitate durante, in efculentes et poculentes eorum infirmitatis congruentibus, necnon in medicinis et aliis juxta infirmitatis hujusmodi qualitatem et Prioratus facultates, de bonis vestris communi
munibus et sicut antiquitus fieri consueverat de cetero faciatis debite procurari, sub pena suspensionis ab officiis vestrís si circa premíssá necligentes fueritis vel remíssí; ipso facto, quousq; id quod necligenter omíssum fuerit perfecéríis, incurrenda; prout in constitu domini Ottoboni plenius continetur; fiatuentes preterea quod camere infirmaria vestrá, cum opus fuerit, infirmís canonícis sint communes, ne, quod abícit, aliquís íbi retineat in eídem vel vendícit proprietatem, contra sancti Augustíni regulam et constituíorum patrum editas in hac parte.

No. XXII. Item cum necligencia híve remíssio in personís precídencium sít pluríum deteñíanda, facilítas quoq; veniec incentivum prebeat delinquéndi; Vobis domino Priorí, Suppriorí, aliísq; conventus predicti prédíentibus quíbuscumq; præsentibus et futuris, in virtute fanecte obedíenciæ firmíte injuungendo mandamus, Quatínus, cum corrécctiones in personís ipsíus conventús ímineant faciende, ipsás, prout ad vos pertínet, abísq; accepctíone qualíbet personarum júxta quantitatem delíctorum et personarum qualítatem vestrásq; observáncias regúlares cum maturitáte débitá, et discretíone previa, facere studéatis; alióquín vos suppríorem ceterosq; prédíentíes predíctos, si necligentes vel remíssí aut culpábles fueritis in premíssís, canoníca nostra monícione premíssá penam suspenciónis ab officiis vestrís extunc incurrére volumus ipso facto, donec hujusmodi necligénciam, remíssionem, culpam, vel defidiam a vobís excusseritis in hac parte; pena prefaeto domino Priorí in hoc cafu, ut conveníet, insligenda nosí specialiter refervata.

No. XXIII. Item cum consuetudines laudábiles Prioratus cujuscumq; ordinacioneque ac statuta que usus longevi temporíis approbavit merito sint servandæ; Vobis domino Priorí ac singulis officiariíis Prioratus vestrí predicti prédíentibus et futurís in virtute fanecte obedíenciæ,
APPENDIX.

obediencie, et sub penis infra scriptis, firmiter injungendo mandamus; Quatminus pitancias et alias distribuciones quascunque, in quibuscunque rebus consistant et quocunque nomine conveniantur, in obitibus, anniversariis festivitatibus, aut aliis diebus, conventui, aut ab uno officio alii officio ex ordinacione antiqua debitas et confuetas, in canonicum aliquod non obstat a modo faciatis perfolvi, sub pena porcionis duple, cujus partem unam conventui predicto, alteram vero partem certis piis usibus nostro arbitrio limitandis debite perfolvendam specialiter reservamus.

No. XXIV. Item cum vendiciones boscorum, firme maneri- orum vel eciam ecclesiariarum, aut alia domus vestre ardua negocia imineant facienda, illa, sine tractatu ac deliberacione provida cum conventu predivo ac eorum consenfu expresso vel majoris et sanioris partis ejusdem, de cetero fieri prohibemus; aliter autem hujusmodi negocia ardua facta nullius existunt firmitatis; et nichilominus Priorem aliasque officiarios quoscumq; qui contra presentem prohibitionem nostram quicquam attemptaverint in premisis, penam suspensiois ab officii eorumdem ipso facto se noverint incurfuros, cum ex hujusmodi factis privatis ecclesiis dispendia multiticios pro- venerunt; illa quoque quern omnes tangunt ab omnibus merito debeat approbari.

No. XXV. Item volumus ac eciam ordinamus, quod sigillum vestrum commune sub quinque clavibus ad minus de cetero custodiatur; quarum unam penses Priorem, secundam penes supprinnamon, terciam penes precentorem, et reliquas duas claves penes confratres alios per conventum ad hoc nominandos decrevimus remanere, per ipfos fideliter custodiendas; inhibentes preterea sub pena excom. majoris ne quicquam cum dito sigillo communi a modo figelletur, nisi litera hujusmodi sigillanda primitus legatur, inspiciatur, et eciam intelligatur a majore et saniore parte tocius conventus.
APPENDIX.

conventus, et ad ipsam sigillandam communis vester prebeatut consensius, cum ex facto hu:cufmodi plura possunt dispensia verismo-liter provenire; ad hac vobis omnibus et singulis tenore prefencium inhibemus, ne compatres aliquis fueri de cetero fieri presumatis, nostra super hoc licencia non obtenta, cum ex hujusmodi cognacionibus religiosis domibus dispensia sepis invenire noscuntur; contrarium vero facientes, preter disciplinas alias regulares, singulis sextis feris per mensem proxime tunc sequentem in pane et aqua jejunando precipimus castigari.

No. XXVI. Item quia nonnulli canonici domus vestre presdictae, freno abjerto observancie regularis, caligis de Burneto et totularium basp. in ocrearum loco ad modum totularium uti publice non verentur, contra confuetudinem antiquam laudabilem ordinis supradici, in perniciofum exemplo et scandalum plurimorum; nos igitur honestatem dicti ordinis observare volentes, Vobis domino Priori in virtute sancte obedientie fimiriter injungendo mandamus, Quatimus quofcnum; vester canonicos et confratres ad utendum de cetero ocreis feu botis secundum antiquas vestr ordinis observancias regulares per quascumq; censuras ecclesiasficas, et, si opus fuerit, par incarceracionis penam canonice compellatis, sub pena suspensioris ab officio vestro presdicto.

No. XXVII. Item quia tres vel due partes conventus domus vestr non comedunt cotidie in refectorio; prout constitutiones sanctorum patrum fanxerunt providi in hac parte; Vobis dicti Prioratus conventui firmiter injungendo mandamus, Quatunus tres vel saltem due partes vestrum cotidie in refectorio hora prandii de cetero comedant et remaneant debite, sicut decet; vobis arcium injungentes, quod nullus vestrum in manuunculis aut locis alis privatis eciam cum hospitibus suis regularibus vel secularibus vel confratibus suis comedat; hoitilaria cum hospitibus, refectorio in
APPENDIX.

in communi misericordia, causa recreacionis, et aula Prioris dum-taxat exceptis; hanc tamen Prior apponat providenciam diligentem, ut, sine personarum accepcione, nunc hos nunc illos ad refectionem convocet, quos magis noverit indigere; super executione vero debita premisforum Priorum ac alios conventui presidentes sub pena suspensionis ab eorum officiis arcetius oneramus.

No. XXVIII. Item, cum secundum sanctorum patrum constituciones, junciores canonici a suis prelati vivendi normam habeant assumere, ac idem prelati super sua conversacione testium copiam debeant obtinere; Vobis domino Priori in virtute obedientie diuiri preciendo mandamus, Quatius capellanum vestrum canonicum singulis de cetero mutetis annis, juxta constitutiones sanctorum patrum editas in hac parte; ut sic, qui vobiscum fuerint in officio predicato, per doctrine laudabili exercitium plus valeant in religione proficere, ac eos innocencia testes, si vobis, quod abit, crimen aliquod seu scandalum per aliquorum invidiam imponatur, prompte poteritis invocare.

No. XXIX. Item, cum communis exquisitus ornatus prefer-tim in religiosis personis a jure sit penitus interdictus; Vobis tenore prefencium inhibemus, ne quivis vestrarn de cetero in suis vestibus furvris preciosis aut manicis nodulatis zonisve feris auri vel argenti ornatum habentibus utatur de cetero quovis modo, cum abusus hujusmodi ad pompam et ostentacionem ac scandalum ordinis manifeste tendere dinoceatur.

No. XXX. Item, quia singula officia sunt singulis committenda personis; Vobis in virtute obedientie et sub excom. sententie pena firmiter injungendo mandamus, ut officia singula vestri Prioratus, que per canonicos officiarios gubernari solebant, per officiarios hujusmodi, per vos communiter vel divisi juxta Prioratus

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ratus predicti morem folitum eligendos, quibus ipsa officia, ut olim, committi volumus exercenda, singulariter de cetero gubernentur.

XXXI. Item, cum plus timeri solet id quod specialiter injungitur quam quod generaliter imperatur; Vobis omnibus et singularis inhibemus, ne aliquis vestrum, ad curam animarum non admittis, clericis aut laicis sacramentum unctionis extreme vel euchauristia miniaturare, matrimonias ve solemnizare, non habita super his parochialis presbyteri licencia, quomodolibet presumatis, sub pena excom. majoris.sententie in hac parte a canone fulminate.

XXXII. Item quia comperimus in nostris visitacionibus supradictis vasa et pallas altaris, necnon et vestimenta sacra ecclesie vestre, atque corporalia, tam immunda relinqui, quod interdum ali-quibus sunt horribi; ut igitur honor debitus divinis impendatur: Vobis firmiter injungendo mandamus, Quatins vasa, corporalia, pallas, et vestimenta predicta, ac cetera ecclesie ornamenta munda nitida et honesta decetero conserventur hoc quoq; insuper injungentes, ut in ecclesiis vestra celebrantibus vinum bonum, purum, et incorruptum ad sacramentum altaris conficiendum per eum qui super hoc gerit officium, et non corruptum, et acetosum, prout fere con-fueverit, impoferum ministretur; nimis enim videtur absurdum in sacrificis fordes neceligere, que dedecerunt in prophanis.

XXXIII. Item licet sanctorum reliquias, vasa, aut vestimenta sacra seu libros ecclesie in vadem dari, aut pignori obligari canonica prohibeant instituta, a vobis tamen in dictis visitacionibus comperimus contrarium esse factum; Vobis igitur domino Priori, tenore presencium, firmiter injungendo mandamus, quatinus ab huysmodi impignoracionibus extra causas ajure permittos vos decetero pene-tus abstinentes, huysmodi pignori obligata curetis recolligere, et ea ecclesie
APPENDIX.

ecclesie vestre restituere, absq; more dispindio, sicut decet; flatu-
entes preterea ut omnes carte ac munimenta quoccumq; flatum bona
et possesiones domus vestre qualitercumq; contingentes, sub tribus
feruris et clavibus remanant, futuris temporibus fideliter confer-
vande.

XXXIV. Item cum religiosi de bono in melius continue de-
beant proficiisci, ac ex fácre scripture lectione et inspectione qualiter
id faciant plenius instru valeant; Vobis firmiter injungendo man-
damus, ut, completis hiis, que ad vestri ordinis et regularis dis-
cipline observanciam pertinent atq; spectant, in claustro fedentes
scripture facre lectioni faneæq; contemplacioni devocius insfpediatis,
sic secundum regule vestre exigenciam taliter codices inspiciendo
requiratis, ut in eis quid fugiendum quid subsequendum ac cujus-
modi premium inde consequendum fuerit agnoferere valeatis.

XXXV. Item vobis Domino Priori injungimus, quod cum pa-
rentes vel confanguinei alicujus confratris vestri ad eum accessi-
rint, causa visitandi eundem, liberaliter secundum flatum sui
exigentiam per vos vel illum qui super hoc ministrandi gerit of-
cicium infra Prioratum honeste et debite procuretur; sed videant
fratres ne nimis sint in talibus Prioratui onerosi.

XXXVI. Item quia parum est jura condere nisi executioni de-
bita demandentur, ea quoque solent labili memorie eo tenacios
commendari quo veraciter audientium auribus fuerint sepius incul-
cata; et, ne vestrum quis piam ignorantiam pretendetere valeat
premissorum; Vobis firmiter injungendo mandamus, quatinus
has nostros injunctiones et decreta pariter supradicta in aliquo vo-
numine competenti absq;que more dispindio conscribi plenius facia-
tis, eaque omnia et singula bis annis singulis de cetero coram toto
conventu plenius recitari; vos nichilominus omnes et singulos
monemus primo secundo et tercio peremptorie, vobis infuper in

N n n 2

virtute
APPENDIX.

virtute obediencie arctius injungentes, quatinus ipsas injunctiones nostras et decreta predicta omnia et singula prout ad vos et vestrum quemlibet pertinens et singulariter vos concernunt, teneatis de cetero ac eciam observetis, sub penis et censuris ecclesiasticis supradictis, et aliis penis canoniciis in contravenientes quoscumque, prout contumacia delinquencium exegerit, per nos imposterum canonice infligendis. Potestatem autem premisla corrigendi, mutandi in toto vel in parte, interpretandi, declarandi et eisdem addendi, et eciam detrahendi, ac penas adjiciendii, suspendendi, necnon super compertis aliis in visitatione nostra predicta procedendi, criminaque et defectus ac excessus in ipsa comperta et delata corrigendi, ac canonice puniendi, et super ipsas novas injunctiones infuper faciendas, sicut et prout opus fuerit et nobis videbitur expedire, nobis eciam specialiter reservamus. In quorum omnium testimonium sigillum nostrum fecimus hiis apponi. Dat. apud Wynton vicefimo septimo die mensis Septembris anno Domini millecimo ccc octogesimo septimo et nostre consecrationis anno vicefimo.

(L. S.)

NUMBER
NUMBER IV.

(No. 50.)


Hec indentura saepta die lune proxime post sextum natalium Dni anno regis Henrici sexti post conquestum anglie v. - - - - inter fratem Johannem Stepe priorem ecclesie beate Marie de Selborne & Petrum Barnes sacrif. ibidem videlicet quod predictus prior deliveravit prefato Petro omnia subscripta In primis xxii amit xxxi aubes vid. v. fine parura pro quadragesima xxii manicul. Item xxii stole Item viii casula vid. iii albe pro quadragesima Item xi dalmatic. vid. i debit. Item xvi cape vid. iii Veteres Item unam amittam I albam cum paruris unum manipulum I stolam I casulam et duas dalmaticas de dono Johannis Combe capellani de Cicestria pro diebus principalibus Item I amittam I aubam cum paruris I manipulum I stolam I casulam de dono fratris Thome Halybone canonis Item I amittam I aubam cum paruris I manipulum I stolam I casulam pertinentem ad altare sancte Catharine virginis pro priore Item I amittam II aubas cum paruris II manipul II stolas et II casulas pertinentes ad altare sancti Petri de dono patris Ricardi holte. Item de dono ejusdem.
ejusdem tuella vid. cum fruiiectello et canvas pro eodem altare Item tuellum pendentem ad terram pro quadragesima Item tuell pro lavatore Item tuell fine fruiiectelli Item tuell pro summo altare fine tuellis Item coopertor pro le ceste Item pal·lias de feric·o debili Item velum pro quadragesima Item tapetum viridi coloris pro summo altare Item frue‖ellis parvis pertinent, ad dict. altare Item officiat·or vid. v debit. Item vexilla Item pelves questiones vid. de feric·o Item super altaria Item quinze calices vid. de auro Item cruettes de argent de dono dni Johannis Combe capellani de Ciceestre Item cruettes de peuter Item coupam argent. et deaur. Item osculator argent. Item osculum cum ofte digni amiculari St. Johannis Baptiste Item crux argent. et deaur. non radicat. Item tertium et deaur. Item anulum cum saphiro Item aliud anulum I politum aureum Item anulum argent. et deauratum St. Edmund. Item concha cum pereo infixo Item ciflam argent. et deaur. Item imaginem beate Marie argent. et deaurat. Item parvam cruæcum cum reliquis Item juncitorum St. Ricardi Item tecam pro reliquis imponend Item calefactor St. Ricardi Item cancele•tor vid. de stagno et de ferro Item pel•ten St. Ricardi Item viell de cristall In parte fract Item pelvim de coper ad lavator Item osculator. de coper Item parvum terribulum de latyn Item las de coper pro frank et fenece confecerat Item pixidem de juyry pro corpore Christi Item vasa de plumbo pro oleo conservando Item patellam eneam ferro ligat. Item tripodem ferr. Item coffrell contum lagen et potrell. Item bab¥ngyres Item botelles de corio vid. de quarte et de pynte Item anul. arg. et pixidem Ste Marie de Waddon Item ( ) Instrumenta
Instrumenta pro Sandyng Item i ledbnyff Item i shafshobe Item i securim Item ii scabell, de ferro pro cancell Item i plane Item i cistam fine cerura Item xiii sonas Item xix taperes ponder xiii la et dimid. Item ii torches ponder xx ii Item xiii la cere et dimid. Item de candelis de cera ponder vii la Item i la de frank et fence Item i lagenam olei Item ix pondera de plumbo

(Vide de flauro in tergo) et in tergo scribuntur

hæc, "ii vacce i sus iii hogget et iii porcell"
A Paper conteyning the value of the Manors and Lands pertaining to the Priorie of Selborne. iv. Edw. 3. With a note of charges yeilding out of it.

SELEBORNE PRIORATUS.

Summa totalis valoris maneriorum terrarum tenementorum et premiiforum ejusdem Prioratus in fefto St. Michaelis Archange. anno secundo Regis Edvardi 4th. ut patet Rotul. de valoribus liberat.

III vi li. (i. e. LXXXVIII.) x s. vi d.

Inde in redditibus resolutis domino pape domino Archiepiscopo et in diversis feodis certis personis concessis ac aliis annualibus reprivis in eisdem Rotul. de valoribus annotatis per annum XLI li. XIX s. v d.

Et remanet de claro valore LXXI li. x s. VIII d.

Videlicet

\[\begin{align*}
\text{Atignantur pro quatro canonicis et quatro famulis deo et ecclesie ibid. servi-} \\
\text{entibus pro eorum vadiis vestur. et diet. ut patet per bill inde facti.}
\end{align*}\]

\[\begin{align*}
\text{per annum XXX li.}
\end{align*}\]

\[\begin{align*}
\text{Diversis creditoribus pro eorum debitis perfolvendis ut patet per}
\end{align*}\]

\[\begin{align*}
\text{parcell inde facto. XV li. XV s. IIII d.}
\end{align*}\]

\[\begin{align*}
\text{Reparationibus Ecclesiarchorum domorum murorum et clausurarum}
\end{align*}\]

\[\begin{align*}
\text{ejusdem Prioratus per annum XV li. XV s. IIII d.}
\end{align*}\]

\[\begin{align*}
\text{Annua pencione Domini Prioris ei assignata per annum quouque}
\end{align*}\]

\[\begin{align*}
\text{remanet X li.}
\end{align*}\]

SELEBORNE
APPENDIX.

SELBORNE PRIORATUS.

Modo sequitur de Reformacione premisionum.

Redditi omn. firmis et Pecuniosis.

\[
\text{Summa total. valorum ibid. misis et deboeratis inde deductis prout patet per declarationem Dni Petri Prioris de Seleborne ad man. Dni nostri Wynton apud Palacium suum de Wolfsley presentat. per ipsum ultimo die febr. Ann. Domini mcccclxii. et penes ipsum remanet}
\]

\[
\text{Lxxi li. x s. viii d. unde per ipsum Dnum nostrum Wynton assignantur infforma fsequence videlicet.}
\]

\[
\text{Pro quatuor canonicis et quatuor familia deo et ecclesia ibid. servientibus pro eorum Diet. vadiis et vestur. ut patet per bill inde fact.}
\]

\[
\text{Pro annua penciune Prioris quouique remanet.}
\]

\[
\text{xxx li.}
\]

\[
\text{x li.}
\]

\[
\text{kv li. kv s. iii d. per ii annos ad xxxi li. x s. viii d. ultra lvi li. xiii d. de vendit. Stauri.}
\]

\[
\text{kv li. kv s. iii d. per ii annos ad xxxi li. x s. viii d. Summa total. valoris pro debitis et reparacionibus assignat. cum lvi li. xiii d. de vendit. Stauri ut supra cxviii li. ii s. vi d.}
\]

Debita.
Debita que debentur ibid. per diversos tenentes et firmarios ad festum St. Michaelis anno tertio Regis Edvardi 4th. videlicet.

Abbas de Derford de seco firmæ sua ad ix li. vi s. VIII d. per annum a retro XX li. VII s. XId.


Johannes Shalmere ball. de Selborne debet LXXV s.

Ricardus Cawry debet de eodem anno vi s.

Summa xxviili li. vii s. xi d.

Thomas Perkyns armig. debet de firmæ sua prediçta ad festum St. Mich. ann. VII et ultra seco. sum ad xx s. per annum vii li. vii s. viii d.

Thomas lussher debet pro firmæ sua ad XL s. per annum cum seco. suis ad xx s. per annum c. s.

Hugo Pakenham debet de redditi suo ad xx s. c. s. per ann.

Abbas de Derford debet de seco firmæ sua ultra xx li. vii s. xi d. ut supra pro annis III. IIII. et xxvillli li. v. Regis Edvardi.

Walterus Berlond firmarius de Shene debet IX li. v s. IId.

Henr. Shafter firmarius seco de Basynfstoke xil li. IIII d.

Henr. lode nuper firmarius manerii de Chede debet xx li.

Total LXXXIIIIV li. XIIId.

Summa LXVI li. XII s. vi Id.
# INDEX

<table>
<thead>
<tr>
<th>A</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amerla, one of the wives of Sir Adam Gurdon, makes a grant of lands to the Priory</td>
<td>351</td>
</tr>
<tr>
<td>Anne, queen, came to Walmer-forest to see the red deer</td>
<td>17</td>
</tr>
<tr>
<td>April, 1770, the remarkable inclemency of its weather</td>
<td>139</td>
</tr>
<tr>
<td>Arm, the cuckoo-pint, eaten in hard weather, by what</td>
<td>43</td>
</tr>
<tr>
<td>Abford, Thomas, last prior of Selborne</td>
<td>400</td>
</tr>
<tr>
<td>———— is pensioned by Magdalen College</td>
<td>411</td>
</tr>
<tr>
<td>Ash-tree, a rupture one, what</td>
<td>202</td>
</tr>
<tr>
<td>———— a shrew one, what</td>
<td>203</td>
</tr>
<tr>
<td>August, the most mute month respecting the singing of birds</td>
<td>101</td>
</tr>
<tr>
<td>Ayles Holt, alias Alice Holt, the forest of</td>
<td>24</td>
</tr>
<tr>
<td>———— its grantees</td>
<td>24</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barometers, Selborne and Newton compared</td>
<td>285</td>
</tr>
<tr>
<td>———— South Lambeth</td>
<td>286</td>
</tr>
<tr>
<td>Barragon, a genteel cored stuff, where manufactured</td>
<td>14</td>
</tr>
<tr>
<td>Bat, a tame one, some particulars about</td>
<td>32</td>
</tr>
<tr>
<td>——— drink on the wing like swallows</td>
<td>32</td>
</tr>
<tr>
<td>——— the large fort, some particulars about</td>
<td>76</td>
</tr>
<tr>
<td>——— nondescript in 1769, 76. More account of</td>
<td>93</td>
</tr>
<tr>
<td>Beaufort, bishop of Winchester, his register imperfect</td>
<td>375</td>
</tr>
<tr>
<td>Berne, alias Bernes, Peter, sacrist of Selborne Priory</td>
<td>383</td>
</tr>
<tr>
<td>——— appointed prior by lapfe to the visitor</td>
<td>386</td>
</tr>
<tr>
<td>——— resigned his priorship</td>
<td>387</td>
</tr>
<tr>
<td>——— is re-elected</td>
<td>393</td>
</tr>
<tr>
<td>——— relinquishes again</td>
<td>395</td>
</tr>
<tr>
<td>——— is pensioned</td>
<td>398</td>
</tr>
<tr>
<td>——— the indenture delivered to him, as sacrist, from the prior of Selborne</td>
<td>463</td>
</tr>
</tbody>
</table>

O 0 0 2
### INDEX

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bins, or Beans-pond, for what remarkable</td>
<td>21</td>
</tr>
<tr>
<td>Birds, summer, of passage, a list of</td>
<td>46, 115</td>
</tr>
<tr>
<td>living ones shown here, when from distant regions, why usually of the thick-billed genera</td>
<td>83</td>
</tr>
<tr>
<td>of summer passage—seen spring and autumn at Gibraltar</td>
<td>87</td>
</tr>
<tr>
<td>soft-billed, that winter with us, how supported</td>
<td>105</td>
</tr>
<tr>
<td>of winter passage, a list of</td>
<td>117</td>
</tr>
<tr>
<td>that continue in full song till after Midsummer</td>
<td>119</td>
</tr>
<tr>
<td>why fatten in moderate frosts</td>
<td>128</td>
</tr>
<tr>
<td>what forts are <em>pulveratrices</em></td>
<td>133</td>
</tr>
<tr>
<td>what occasions their congregating</td>
<td>145, 146</td>
</tr>
<tr>
<td>in the season of nidification, tame</td>
<td>189</td>
</tr>
<tr>
<td>various manner of motion of</td>
<td>237</td>
</tr>
<tr>
<td>notes and language of</td>
<td>240</td>
</tr>
<tr>
<td>Black-cap, an elegant songster</td>
<td>103</td>
</tr>
<tr>
<td>Boy, an idiot, his strange propensity</td>
<td>200</td>
</tr>
<tr>
<td>eats bees, &amp;c.</td>
<td>201</td>
</tr>
<tr>
<td><em>Brimstone-lodge</em>, some account of</td>
<td>21</td>
</tr>
<tr>
<td>Brooks at Selborne, what fishes they produce</td>
<td>31</td>
</tr>
<tr>
<td>Bug, harvest, some account of</td>
<td>89, 90</td>
</tr>
<tr>
<td>Bullfinch, turns black</td>
<td>42</td>
</tr>
<tr>
<td>Bunting, a very rare bird at Selborne</td>
<td>37</td>
</tr>
<tr>
<td>Butcher-bird, red backed</td>
<td>56</td>
</tr>
<tr>
<td>Buzzards, honey, some account of</td>
<td>109</td>
</tr>
<tr>
<td><em>Caprimulgus</em>, or fern-owl, some new observations about</td>
<td>94</td>
</tr>
<tr>
<td>Carta pro fundatione Prioratus de Selborne</td>
<td>431</td>
</tr>
<tr>
<td>Carta petens licenciam elegendi prelatum à dom. episcop. Winton.</td>
<td>434</td>
</tr>
<tr>
<td>Castration, its strange effects</td>
<td>212</td>
</tr>
<tr>
<td>Cats, house, strange that they should be so fond of fish</td>
<td>82</td>
</tr>
<tr>
<td>Chaffinches, vast flocks of hens</td>
<td>37</td>
</tr>
<tr>
<td>hens, more account of</td>
<td>136</td>
</tr>
<tr>
<td>Chalk-hills, why peculiarly beautiful</td>
<td>163</td>
</tr>
<tr>
<td>Church, Selborne, particulars about</td>
<td>314, 320</td>
</tr>
</tbody>
</table>

*Coccus*
INDEX.

Coccus vitis vinifera, strange and rare insect in England - 265, 268
Coins, Roman, found at Selborne in great abundance - 309, 310
Cornua Ammonis, where found - - - 7, 8
Cricket, field, a monography of - - - 251, 253
- hearth, a monography of - - - 254, 256
- mole, a monography of - - - 256, 258
Crocus, the spring, and saffron, their different seasons of blossoming wonderful, why - - - 429
Cuckoo, particulars about - - - 125, 126, 128
- - fing in different keys - - - 143
- - a young one in the nest of a titlark - - - 133
- - several skimming over a pond, why - - - 134
Cumberland, William, Duke of, takes away the red deer from Wolmer-forest 17
Curlew, stone, some account of - - - 43, 44
- - more particulars of - - - 88, 89

D

Daffard, alias Waflard, natural son to Sir Adam Gurdon - - 352
Daws breed in unlikely places - - - 50
Deer, red, in Wolmer-forest, some account of - - - 17, 18
- fallow, in Holt-forest, - - - 25
- - - their spiracula, or breathing places - - 40, 41
Dispersion of birds, pretty equal, why - - - 239
Dogs, Chinese, from Canton - - - 279
Domesday-book, account of Selborne from - - - 311
Dove, flock, or wild winter-pigeon - - - 98
- - flock, many particulars of - - - from 110 to 114
Downs, Sussex, a lovely range - - - 163

E

Echo, a polyyllabical one - - - - 224
- - why since mute - - - - 228
- - several remarks on echoes - - - 224, 229
- - a charming description of echoes from Lucretius - - 229
Echoes occasioned by the discharge of swivel guns - - - 285
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fair at Selborne</td>
<td>423</td>
</tr>
<tr>
<td>Falcon, peregrine, particulars about</td>
<td>278</td>
</tr>
<tr>
<td>Fieldfares, strange that they do not breed in England nor in Scotland</td>
<td>73</td>
</tr>
<tr>
<td>Fieldfares, strange that they do not breed in England nor in Scotland</td>
<td>73</td>
</tr>
<tr>
<td>rooft on the ground</td>
<td>77, 78</td>
</tr>
<tr>
<td>Fishes, gold and silver, why very amusing in a glass bowl</td>
<td>269</td>
</tr>
<tr>
<td>Fly, bacon, injurious to the housewife</td>
<td>90</td>
</tr>
<tr>
<td>Whame, or burrel, oestrus curvicauda</td>
<td>90</td>
</tr>
<tr>
<td>Fly-catcher, some particulars of</td>
<td>104</td>
</tr>
<tr>
<td>Forms, five, respecting the chusing a prior</td>
<td>362</td>
</tr>
<tr>
<td>Frogs migrate from pools</td>
<td>49</td>
</tr>
<tr>
<td>Frost, that in January, 1768, described</td>
<td>287, 291</td>
</tr>
<tr>
<td>that in January, 1776</td>
<td>291, 295</td>
</tr>
<tr>
<td>that in December, 1784</td>
<td>296, 298</td>
</tr>
<tr>
<td>German silk-tail, garrulus bohemicus, flot</td>
<td>34</td>
</tr>
<tr>
<td>Gosflamer, a wonderful flower of</td>
<td>192, 192</td>
</tr>
<tr>
<td>Grange, the, belonging to Selborne Priory</td>
<td>424</td>
</tr>
<tr>
<td>Greatham, the manor farm of, its privilege in Wolmer-forest</td>
<td>20</td>
</tr>
<tr>
<td>Gurnon, Sir Adam, who and what</td>
<td></td>
</tr>
<tr>
<td>where, a man of rank and property</td>
<td>340</td>
</tr>
<tr>
<td>his wives</td>
<td>340</td>
</tr>
<tr>
<td>builds an oratory in his manor-house</td>
<td>342</td>
</tr>
<tr>
<td>grants the Pléflor to the Priory of Selborne</td>
<td>345</td>
</tr>
<tr>
<td>becomes warden of Wolmer-forest</td>
<td>347</td>
</tr>
<tr>
<td>a disfringas against him, 349. Enlists troops for the king</td>
<td>350</td>
</tr>
<tr>
<td>His advanced age, 351. His seal and arms</td>
<td>351</td>
</tr>
<tr>
<td>seems to have had no concerns with the Knights Templars</td>
<td>357</td>
</tr>
<tr>
<td>Gypsies, some particulars about</td>
<td></td>
</tr>
<tr>
<td></td>
<td>195, 196</td>
</tr>
<tr>
<td>H</td>
<td></td>
</tr>
<tr>
<td>Hail-farm at Selborne in summer 1784</td>
<td>303, 305</td>
</tr>
<tr>
<td>Hunger, the</td>
<td>2</td>
</tr>
<tr>
<td>Hufil Wyce</td>
<td>4</td>
</tr>
<tr>
<td>Hawkley</td>
<td></td>
</tr>
</tbody>
</table>
## INDEX.

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawk-banger, the amazing fall thereof</td>
<td>246, 249</td>
</tr>
<tr>
<td>Hawk, sparrow, the dread of housewives</td>
<td>110</td>
</tr>
<tr>
<td>Haze, or smokey fog, the peculiar one which prevailed in summer 1783</td>
<td>301, 302</td>
</tr>
<tr>
<td>Heath-fires, why lighted up</td>
<td>20</td>
</tr>
<tr>
<td>Hedgehog, some account of</td>
<td>77</td>
</tr>
<tr>
<td>Heliotropes, summer and winter, how to make them</td>
<td>244</td>
</tr>
<tr>
<td>Herissant, Monsieur, mistaken in his reason why cuckoos do not use incubation</td>
<td>208, 209</td>
</tr>
<tr>
<td>Hirundines, Britis, when they arrived in three very distant counties</td>
<td>188</td>
</tr>
<tr>
<td>Hogs, would live, if suffered, to a considerable age</td>
<td>213</td>
</tr>
<tr>
<td>Holt Ayces, a royal forest; some account of</td>
<td>24</td>
</tr>
<tr>
<td>House, vicarage, at Selborne</td>
<td>323</td>
</tr>
<tr>
<td>Howe, General, turns out wild boars in Holt-forest</td>
<td>26</td>
</tr>
<tr>
<td>Huxham, Dr. his account of rain at Plymouth</td>
<td>284</td>
</tr>
</tbody>
</table>

### I

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jar bird, what</td>
<td>47</td>
</tr>
<tr>
<td>Indentura Prioris de Selborne tradit. Petro Bernes sacrificia</td>
<td>463</td>
</tr>
<tr>
<td>Inflinst, sometimes varies and conforms to circumstances</td>
<td>274</td>
</tr>
<tr>
<td>—— often perfectly uniform</td>
<td>275</td>
</tr>
<tr>
<td>Johanna, daughter and heires of Sir A. Gardon, grants lands and tenements to the Priory</td>
<td>332</td>
</tr>
<tr>
<td>Ireland, why worthy the attention of a naturalist</td>
<td>107</td>
</tr>
</tbody>
</table>

### K

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knights Templars, had considerable property at Selborne</td>
<td>353</td>
</tr>
<tr>
<td>——lived in a mutual intercourse of good offices with the Priory</td>
<td>355</td>
</tr>
</tbody>
</table>

### L

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanes, hollow, rocky, their peculiarities</td>
<td>11</td>
</tr>
<tr>
<td>—— abound with filices</td>
<td>11</td>
</tr>
<tr>
<td>Langelande, Robert, severe on the religious</td>
<td>391</td>
</tr>
</tbody>
</table>
**INDEX.**

<table>
<thead>
<tr>
<th>Entry</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Langrishe, Nicholas, who had been a chantry pricel, sent by Magdalen</td>
<td>412</td>
</tr>
<tr>
<td>college to celebrate mas at the dissolved Priory of Selborne</td>
<td></td>
</tr>
<tr>
<td>Larks, white, probably snow-flakes</td>
<td>42</td>
</tr>
<tr>
<td>—— gras-hopper, some curious circumstances about</td>
<td>45</td>
</tr>
<tr>
<td>Leper, a miserable one in this village</td>
<td></td>
</tr>
<tr>
<td>Leprosy, why probably less common than of old</td>
<td>221, 224</td>
</tr>
<tr>
<td>Leveret, suckled by a cat</td>
<td>214</td>
</tr>
<tr>
<td>Linnets, congregate and chirp</td>
<td>37</td>
</tr>
<tr>
<td>Loaches from Ambrepbury</td>
<td>52, 53</td>
</tr>
<tr>
<td>Longspee, Ela, founds a chantry at Selborne</td>
<td>359</td>
</tr>
<tr>
<td>—— who and what</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td></td>
</tr>
<tr>
<td>Malm, black, what sort of soil</td>
<td>3</td>
</tr>
<tr>
<td>Ditto, white</td>
<td></td>
</tr>
<tr>
<td>Manors and lands of the Priory of Selborne</td>
<td>465</td>
</tr>
<tr>
<td>March, the month of, two wonderfully hot days in March 1777; the</td>
<td></td>
</tr>
<tr>
<td>effects of that heat</td>
<td>218, 219</td>
</tr>
<tr>
<td>Martin, house, seen very late</td>
<td>59</td>
</tr>
<tr>
<td>—— house, a monography of</td>
<td></td>
</tr>
<tr>
<td>—— sand, or bank, a monography of</td>
<td>157, 162</td>
</tr>
<tr>
<td>—— house, farther circumstances about</td>
<td>175, 179</td>
</tr>
<tr>
<td>—— house, more particulars concerning</td>
<td>263</td>
</tr>
<tr>
<td>Martin, Pope, his bull touching the revoking of certain things alienated</td>
<td></td>
</tr>
<tr>
<td>from the Priory of Selborne</td>
<td>379</td>
</tr>
<tr>
<td>Mercatus, de, et feria de Seleburne, a mistake in bishop Tanner</td>
<td>425</td>
</tr>
<tr>
<td>Mice, small red, nondescript</td>
<td>33</td>
</tr>
<tr>
<td>—— one of their nests described</td>
<td>33, 34</td>
</tr>
<tr>
<td>—— some farther account of</td>
<td>39</td>
</tr>
<tr>
<td>Migration, actual, somewhat like it</td>
<td>64</td>
</tr>
<tr>
<td>—— at Gibraltar, ocular demonstration of</td>
<td>139</td>
</tr>
<tr>
<td>Mills, water, the Priory of Selborne in possession of several</td>
<td>417</td>
</tr>
<tr>
<td>Moose-deer, a female, some account of</td>
<td>79, 80</td>
</tr>
<tr>
<td>—— a male, where killed</td>
<td>83</td>
</tr>
<tr>
<td>Morton,</td>
<td></td>
</tr>
</tbody>
</table>
# INDEX.

<table>
<thead>
<tr>
<th>Term</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morton, John, prior of Reigate, appointed prior of Selborne</td>
<td>388</td>
</tr>
<tr>
<td>Museum, countryman's, where</td>
<td>39</td>
</tr>
<tr>
<td>Music, it's powerful effect on some men's minds</td>
<td>275</td>
</tr>
<tr>
<td>Mysticus crisla galli, a curious fossil-shell</td>
<td>7</td>
</tr>
<tr>
<td>Newt, or eft, water, some account of</td>
<td>49, 54</td>
</tr>
<tr>
<td>Norehill</td>
<td>3</td>
</tr>
<tr>
<td>Oak, a vast one planted on the Plestor</td>
<td>5</td>
</tr>
<tr>
<td>Osprey, or sea-eagle, where shot</td>
<td>97</td>
</tr>
<tr>
<td>Otter, one, where killed</td>
<td>82</td>
</tr>
<tr>
<td>Owl, brown, a tame one</td>
<td>31</td>
</tr>
<tr>
<td>White, or barn-owl, the young not easily bred up</td>
<td>31</td>
</tr>
<tr>
<td>Owls hoot in different keys</td>
<td>143</td>
</tr>
<tr>
<td>White, several particulars of</td>
<td>153, 155</td>
</tr>
<tr>
<td>Paradise of Selborne Priory</td>
<td>413</td>
</tr>
<tr>
<td>Peacocks, their train not a tail</td>
<td>92</td>
</tr>
<tr>
<td>Pettichaps, a very rare bird at Selborne</td>
<td>277</td>
</tr>
<tr>
<td>Plants, the, more rare in Selborne</td>
<td>234</td>
</tr>
<tr>
<td>Plestor, the, in the midst of the village, what</td>
<td>5, 345</td>
</tr>
<tr>
<td>Plover, the,ilt, a rare and curious bird</td>
<td>258, 260</td>
</tr>
<tr>
<td>Pond, Wolmer, it's measurement, fowls, &amp;c.</td>
<td>23</td>
</tr>
<tr>
<td>Ponds on elevations, why seldom dry</td>
<td>206</td>
</tr>
<tr>
<td>Porch, church, it's gothic arch and folding doors</td>
<td>322</td>
</tr>
<tr>
<td>Preceptory, an unnoticed one, at Selborne</td>
<td>353</td>
</tr>
<tr>
<td>An attempt to explain what a preceptory was</td>
<td>357</td>
</tr>
<tr>
<td>Priors of Selborne, a list of</td>
<td>400</td>
</tr>
<tr>
<td>Priory of Selborne, when and by whom founded</td>
<td>334</td>
</tr>
<tr>
<td>How endowed at first</td>
<td>335, 338</td>
</tr>
</tbody>
</table>

**pp**

**Priory**
## INDEX


**Priory of Selborne, its present state**  
- paper containing the value of the lands and manors  
  421, 423  
  465

**Q**

Queen’s bank, why so called  
  17

**R**

Rain, the mean of, not to be ascertained at any place till after many years  
  12  
  12

what has fallen at Selborne of late years  
  75

that of Selborne compared with that of Plymouth  
  284

Rat, water, a curious anecdote concerning one  
  102

Red-breasts, why supposed to sing in autumn only  
  104

Red-start, it’s singularities  
  104

Red-wings, the first birds that suffer by frost  
  144

Relics belonging to the Priory of Selborne  
  384

Ring-ousel, where found  
  34

— more particulars of  
  56

— farther account of  
  66

— more of ditto  
  71

— breed in Dartmoor and the Peak of Derby  
  84

— farther remarks concerning  
  96

Rooks, perfectly white  
  42

— an amusing anecdote about  
  283

Ruperta, whose daughter and wife  
  24

Rupibus, or Roche, de la, Peter, who and what  
  333, 334

Rushes instead of candles, matter of much utility in humble life  
  197, 199

Rutland, county of, what rain fell there  
  138

**S**

Scallops, orpectines, where found  
  8

Scotland, in what it’s maps are defective  
  108

Setia melendini, claimed by the prior of Selborne  
  416

Sedge-bird, some particulars about  
  71

Sedge-
<table>
<thead>
<tr>
<th>INDEX</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sedge-bird, more account of</td>
<td>100</td>
</tr>
<tr>
<td>—— a delicate polyglot</td>
<td>124</td>
</tr>
<tr>
<td>Selborne parish, it's situation and abuttals</td>
<td>1</td>
</tr>
<tr>
<td>—— village, how circumstanced</td>
<td>2</td>
</tr>
<tr>
<td>—— the manor of, abounds with game</td>
<td>11</td>
</tr>
<tr>
<td>—— parish of, of vast extent, why</td>
<td>11</td>
</tr>
<tr>
<td>—— population; births, and burials, of</td>
<td>13</td>
</tr>
<tr>
<td>—— rain, quantity of, considerable, why</td>
<td>12</td>
</tr>
<tr>
<td>—— produces near half the birds of Great Britain</td>
<td>104</td>
</tr>
<tr>
<td>—— why a Saxon village</td>
<td>311, 312</td>
</tr>
<tr>
<td>—— becomes a market town</td>
<td>346</td>
</tr>
<tr>
<td>Sharp, John, appointed prior</td>
<td>397</td>
</tr>
<tr>
<td>Sheep, Sussex, horned and hornless</td>
<td>164</td>
</tr>
<tr>
<td>Shingles, Selborne church mostly covered with</td>
<td>322</td>
</tr>
<tr>
<td>Slugs,* very injurious to wheat just come out of the ground, by eating off the blade; and by their infinite numbers occasioning incredible havock</td>
<td>217</td>
</tr>
<tr>
<td>Snake, flinks ( \text{f} \text{e} \text{d} \text{e} \text{s} \text{i} \text{n} \text{d} \text{e} \text{n} \text{d} \text{e} \text{d} \text{o} )</td>
<td>72</td>
</tr>
<tr>
<td>Snipes, their piping and humming</td>
<td>47</td>
</tr>
<tr>
<td>Snow-fleck, sometimes seen at Selborne</td>
<td>74</td>
</tr>
<tr>
<td>Sociality in the brute creation, instances of</td>
<td>193, 194</td>
</tr>
<tr>
<td>Sow, prodigious fecundity of one</td>
<td>213</td>
</tr>
<tr>
<td>Stone, free, it's uses and advantages</td>
<td>9</td>
</tr>
<tr>
<td>—— rag, it's qualities and uses</td>
<td>9</td>
</tr>
<tr>
<td>—— sand, or forest</td>
<td>10</td>
</tr>
<tr>
<td>—— yellow or rufi colour</td>
<td>10</td>
</tr>
<tr>
<td>Stone curlew, some account of</td>
<td>43</td>
</tr>
<tr>
<td>—— farther account of</td>
<td>43, 44, 88</td>
</tr>
<tr>
<td>Species of animals, several instances of</td>
<td>150</td>
</tr>
</tbody>
</table>

* For the amazing ravages committed on turnips, wheat, clover, field cabbage-seeds, &c. by slugs, and a rational and easy method of destroying them, see a sensible letter by Mr. Henry Vagg, of Chilcompton, in the county of Somerset, lately made public at the request of the gentlemen of that neighbourhood.

Pp 2 Sadington,
# INDEX

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sudington, a preceptory</td>
<td>353</td>
</tr>
<tr>
<td>Summers, 1781 and 1783, unusually sultry</td>
<td>299, 300</td>
</tr>
<tr>
<td>Swallow, the house or chimney, a monography of</td>
<td>167, 172</td>
</tr>
<tr>
<td>——— more particulars about</td>
<td>277</td>
</tr>
<tr>
<td>Swift, or black martin, a monography of</td>
<td>179, 187</td>
</tr>
<tr>
<td>——— the same number usually seems to return to the same place</td>
<td>230</td>
</tr>
<tr>
<td>——— more circumstances about</td>
<td>264</td>
</tr>
<tr>
<td>Teals, where bred</td>
<td>153</td>
</tr>
<tr>
<td>Temple, a manor house so called, described</td>
<td>343, 344</td>
</tr>
<tr>
<td>Thrush, missel, very fierce and pugnacious</td>
<td>188</td>
</tr>
<tr>
<td>Timber, a large fall of, in the <em>Holt-forest</em></td>
<td>26</td>
</tr>
<tr>
<td>Tit-mice, their mode of life and support</td>
<td>106</td>
</tr>
<tr>
<td>Tortoise, a family one</td>
<td>135</td>
</tr>
<tr>
<td>——— more particulars of</td>
<td>148</td>
</tr>
<tr>
<td>——— farther circumstances about</td>
<td>261</td>
</tr>
<tr>
<td>——— more remarks respecting</td>
<td>427</td>
</tr>
<tr>
<td>Tower, the church</td>
<td>321</td>
</tr>
<tr>
<td>——— it's bells tuneable</td>
<td>321</td>
</tr>
<tr>
<td>——— motto on the treble bell, just as it is printed</td>
<td>321</td>
</tr>
<tr>
<td>Trees, why perfect alembics, how</td>
<td>204</td>
</tr>
<tr>
<td><em>Tun-bridge</em>, by whom built</td>
<td>416</td>
</tr>
<tr>
<td>Vicarage of Selborne, fome account of</td>
<td>327</td>
</tr>
<tr>
<td>Vicars of Selborne, a lift of</td>
<td>327, 332</td>
</tr>
<tr>
<td>Viper, blind-worm, and snake, some account of</td>
<td>50, 51</td>
</tr>
<tr>
<td>Viper, pregnant one, some circumstances about</td>
<td>210</td>
</tr>
<tr>
<td><em>Visitatio notabilis de Selburne</em>, a curious document abridged</td>
<td>365, 372</td>
</tr>
<tr>
<td>——— the original in Latin</td>
<td>439</td>
</tr>
</tbody>
</table>

*Walden*
# INDEX.

**W**

<table>
<thead>
<tr>
<th>Entry</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walden-lodge, what, and by whom kept up</td>
<td>21</td>
</tr>
<tr>
<td>Waltham blacks much infested Wolmer-forest</td>
<td>17</td>
</tr>
<tr>
<td>Waltham blacks much infested W fashioned by their enormities occasioned the black act</td>
<td>18</td>
</tr>
<tr>
<td>Wraynlette, William of, endeavours to reform the Priory of Selborne</td>
<td>383</td>
</tr>
<tr>
<td>Wraynlette, William of, endeavours to reform the Priory of Selborne</td>
<td>383</td>
</tr>
<tr>
<td>dissolves it</td>
<td>403, 499</td>
</tr>
<tr>
<td>Well-head, a fine perennial spring</td>
<td>3</td>
</tr>
<tr>
<td>Wells, their usual depth in Selborne village</td>
<td>3</td>
</tr>
<tr>
<td>Whaddon chapel, where</td>
<td>415</td>
</tr>
<tr>
<td>Wheatear, the bird so called, some account of</td>
<td>38</td>
</tr>
<tr>
<td>Wheatear, the bird so called, some account of</td>
<td>38</td>
</tr>
<tr>
<td>—— Suffolk bird, so called, more particulars of</td>
<td>165</td>
</tr>
<tr>
<td>White-throat, some particulars about</td>
<td>103</td>
</tr>
<tr>
<td>Winchester, Hoadly bishop of, his humane objection to resstocking</td>
<td></td>
</tr>
<tr>
<td>Waltham chace with deer</td>
<td>18, 19</td>
</tr>
<tr>
<td>Welmers, forest of, some account of</td>
<td>14, 24</td>
</tr>
<tr>
<td>—— how abutted upon</td>
<td>15</td>
</tr>
<tr>
<td>—— has abounded with fossil trees</td>
<td>15</td>
</tr>
<tr>
<td>—— haunted by many sorts of wild fowl</td>
<td>16</td>
</tr>
<tr>
<td>—— once abounded with heath cocks, or black game,</td>
<td>16</td>
</tr>
<tr>
<td>—— with red deer</td>
<td>17</td>
</tr>
<tr>
<td>Woodcocks, sometimes sluggish and sleepy</td>
<td>141, 145</td>
</tr>
<tr>
<td>Wood-fossil, where found</td>
<td>282</td>
</tr>
<tr>
<td>Wood-Loft's, it's taper oaks</td>
<td>5</td>
</tr>
<tr>
<td>—— it's raven-tree</td>
<td>6</td>
</tr>
<tr>
<td>Worms, earth, no inconsiderable link in the chain of nature, some</td>
<td></td>
</tr>
<tr>
<td>account of</td>
<td>216</td>
</tr>
<tr>
<td>Wrens, willow, three species</td>
<td>54, 55</td>
</tr>
<tr>
<td>Wykeham, William of, his liberal behaviour towards the Priory of</td>
<td></td>
</tr>
<tr>
<td>Selborne</td>
<td>373</td>
</tr>
<tr>
<td>—— his Visitatio notabilis de Seleburne</td>
<td>439</td>
</tr>
<tr>
<td>Wynchebre, John, chosen prior of Selborne, “per viam, vel formam</td>
<td></td>
</tr>
<tr>
<td>simplicis compromissi”</td>
<td>375, 377</td>
</tr>
<tr>
<td>Wyndefor, William, elected prior of Selborne irregularly, and set aside</td>
<td>390</td>
</tr>
<tr>
<td>by the visitor</td>
<td>Yard</td>
</tr>
</tbody>
</table>
INDEX.

Yard, church, of Selborne, a scanty one ........................................ 322
Yeoman-prickers, their agility as horsemen ........................................ 17, 18
Yew-tree, a vast one, in Selborne church-yard ................................... 324, 326

LIST OF THE PLATES
TO THE
HISTORY OF SELBORNE,
FROM THE
DRAWINGS OF S. H. GRIMM.

I. North-east view of Selborne, from the Short Lythe, to front the Title.
II. The Hermitage. Vignette in the Title to the Natural History.
III. Mytilus, Crista Galli, a fossil ................................................. Page 7
IV. Charadrius, Himantopus ................................................................ 259
V. Seal of the Priory. Vide Title of the Antiquities.
VI. South view of Selborne church ...................................................... 315
VII. North view of Selborne church ..................................................... 323
VIII. Temple, in the parish of Selborne ................................................ 343
IX. The Pleystow, vulg. the Plestor ..................................................... 345
**ERRATA in the HISTORY of SELBORNE.**

<table>
<thead>
<tr>
<th>Page</th>
<th>Line</th>
<th>Corrected</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>13</td>
<td>for scenes read scenes.</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>15</td>
<td>for teems read teams.</td>
<td></td>
</tr>
<tr>
<td>91</td>
<td>7</td>
<td>dele comma, and for or read of.</td>
<td></td>
</tr>
<tr>
<td>115</td>
<td>21</td>
<td>for plantive read plainitive.</td>
<td></td>
</tr>
<tr>
<td>163</td>
<td>22</td>
<td>for dilation read dilatation.</td>
<td></td>
</tr>
<tr>
<td>197</td>
<td>13</td>
<td>for effusus read conglomeratus.</td>
<td></td>
</tr>
<tr>
<td>218</td>
<td>7</td>
<td>for nurtred read nurtured.</td>
<td></td>
</tr>
<tr>
<td>234</td>
<td>14</td>
<td>for fitter-wort read fitter-wort.</td>
<td></td>
</tr>
<tr>
<td>235</td>
<td>8</td>
<td>for blea-berries read bil-berries.</td>
<td></td>
</tr>
<tr>
<td>237</td>
<td>2</td>
<td>after incessus dele colon, and insert it after et.</td>
<td></td>
</tr>
<tr>
<td>237</td>
<td>13</td>
<td>over vera dele A</td>
<td></td>
</tr>
<tr>
<td>240</td>
<td>7</td>
<td>for winded read winged.</td>
<td></td>
</tr>
<tr>
<td>246</td>
<td>21</td>
<td>for Wordleham read Ward le ham, &amp; passim.</td>
<td></td>
</tr>
<tr>
<td>258</td>
<td>2</td>
<td>for fresh-mowed read fresh-moved.</td>
<td></td>
</tr>
<tr>
<td>280</td>
<td>23</td>
<td>for peak-nofed read peaked-nofed.</td>
<td></td>
</tr>
<tr>
<td>309</td>
<td>8</td>
<td>for Woolmer read Wolmer, &amp; passim.</td>
<td></td>
</tr>
<tr>
<td>352</td>
<td>12</td>
<td>for esteemed read deemed.</td>
<td></td>
</tr>
<tr>
<td>423</td>
<td>18</td>
<td>for founded read found.</td>
<td></td>
</tr>
</tbody>
</table>