

THE EARLY BLUE-BIRD.

MRS. L. H. SIGOURNEY.

Blue-bird! on you leafless tree, Dost thou carol thus to me, "Spring is coming! Spring is here!" Say'st thou so, my birdie dear? What is that in misty shroud, Stealing from the darkened cloud? Lo! the snow-flakes gathering mound Settles o'er the whitened ground, Yet thou singest, blithe and clear, "Spring is coming! Spring is here!"

Strik'st thou not too bold a strain? Winds are piping o'er the plain, Clouds are sweeping o'er the sky With a black and threatening eye; Urchins by the frozen rill, Wrap their mantles closer still; You poor man with doublet old, Doth he shiver at the cold? Hath he not a nose of blue? Tell me, birdling-tell me true?

Spring's a maid of mirth and glee, Rosy wreaths and revelry; Hast thou wooed some winged love To a nest in verdant grove? Sung to her of greenwood bower, Sunny skies that ne'er lower? Lured her with thy promise fair, Of a lot that ne'er knows care? Prithee, bird in coat of blue. Though a lover-tell her true.

Ask her, if when storms are long, She can sing a cheerful song? When the rude winds rock the tree, If she'll closer cling to thee? Then, the blasts that sweep the sky, Unappalled shall pass thee by; Though thy curtained chamber show, Sittings of untimely snow, Warm and glad thy heart shall be, Love shall make it Spring for thee.

SEEDLING FOREST TREES.

The following carefully prepared article, from the pen of Andrew S. Fuller, read before the Farmer's Club of the American Institute, ferent botanists. What remains to be done is for some contains so much correct information relative to the nature and growth of our native Amer- the most valuable for timber, fuel, fruit, or shade, and ican forest trees and is at once so interesting and important to every American farmer and citizen, that we transfer it to our columns.

The peculiar interest it must possess for the inhabitants of these valleys, where, but a few tility that it would be more profitably employed in raising years since, a green tree was esteemed as an oasis in the interminable desert, must be our apology (if any be required) for the insertion soil planted to trees will not only support them but beof this lengthy article, to the exclusion of our usual variety of pertinent and seasonable articles.

The advantages that would accrue to the people here and the profits to be derived from ren, naked, sandy, rocky, bleak and unproductive lands spring, if they have made a good growth; if not, and wanted by the coopers. the cultivation of forest trees has been frequently presented, that, if possible, some qualified person or persons might be induced to engage in such an enterprise; but hitherto little more has been done than to raise shade trees, chiefly the locust.

So far, so good. We now want to see the different varieties of the maple, the ash, the elm, the oak, the hickory, the beech, the chestnut, the black walnut, etc., grown extensively,

To set about raising forest trees for wood and timber seems at first thought to be a novel undertaking; but there is in reality nothing more supernatural or beyond our reach, nor is there any more skill and labor involved in raising forests for timber and the uses of art than there is in the raising and propagating of fruit trees for the gratification of the sea air and the northeast wind, so that the first of our should again be reduced by taking out every other row, to pay for all articles retained and losses that might ocpalate.

The vast and stately forests which, but a few years since, densely covered a great portion of the Eastern States, have been mercilessly leveled to the ground; the fine timber trees | well laid out and executed. These attracted my notice, whose number once seemed beyond calculation are becoming exceedingly rare and, if no lady." After his lady had panted several ornamental cultivation, interest on land, stock invested, and leave the effort is made to replenish those forests, the supply of timber will ere long become inade- of Tympingham, a waste common of very little value. the most valuable for fire-wood, furniture, etc. as well as quate to the demand. This matter is now be- tried to dissuade her, but in vain; she planted this like- minate until the spring following. They may be sown as coming one of series import in many parts of the Eastern States.

To cause the desolate field to become a forest, probably, would involve no more labor than the replanting of forest trees where those of no use, but as a gentleman from Hamburg being there | seeds, and should be treated the same as the sugar maple. forests had been cleared by the onward march land, she immediately formed the resolution of putting it for ornament only; some of them have not produced of "civilization"-hence we urge, upon our to the test, planted sixty seven acres of it, and the trees seeds in this country; but the silver maple is of such a horticulturists and all others interested, with her ladyship, to the honor of her sex and benefit of her these fancy varieties. The Norway is one of the slowest increased assurance of the practicability of the project, the immediate procuring of seeds and the starting of a growth of forest trees.

Without further comments now, we submit the artice for the perusal of our readers:

The attention of every civilized nation but our own, has been given to the importance of growing forest trees as a source of national wealth.

This has been considered a question of so much importance in European countries, that some of their best literary talent has been employed in giving to the world all the information that could be gathered upon the subject. Among many volumes we note the following:

As early as 1613, Arthur Standish wrote a work exclusively on growing forest trees for timber and firewood. John Evelyn's third work, 1664, was on planting and propagating forest trees.

In 1676, Moses Cook wrote a small work entitled "The Rearing and Ordering of Forest Trees." This is quite a curiosity in its way; nearly every chapter ends with what the author evidently thought was poetry. We make one quotation from chapter eight, as it may be applicable to ourself:

Thus have I guessed but whether right or no-The critick's lash I'm sure to undergo; I to the ingenious practicer direct These lines, which hope with him to gain respect; For learned men oft-times mistaken are, When fools gess right tho mawares.

I have laid a copy of this work on the secretary's table for the inspection of those who are curious in such mat-

The Earl of Haddington wrote a treatise on forest trees

One of the best works of Richard Weston was written in 1770, on forest trees.

William Boutchen, in 1775, also wrote an excellent work on forest trees. This is one of the best works extant; although not large, he enumerates 150 varieties, with directions for growing them.

The preface to his work is one of the best we have ever met. It shows up the humbugs of his day, and is equally applicable at the present time.

In 1777 James Anderson wrote his "Thoughts on Training of Timber Trees."

published in New York, called "The American Grove." Forest Trees." William Pontey, in 1800, wrote "The Profitable Plant- with farm products.

er;" also, in 1805, "The Forest Pruner." Dr. Patrick Graham, in 1814, wrote on "The Woods and

Plantations of Scotland."

and Diseases of Forest Trees."

ject up to the year 1820. devoted to this subject. Several works have appeared in to the subject. It is as simple a process to grow forest sidered very difficult to transplant. But if they are root-England and this country within the past thirty years up- | trees as it is a field of grain.

on forest trees, among which we might mention "The delphia; also D. J. Browne's "Trees of America." They but considerable in the way of describing new varieties.

In the Report of the Smithsonian Institution for 1858 will be found a very complete catalogue of the native trees of the United States which gives botanical name, the common name, the height in feet, the range of country where found, and also the region of their greatest abundance. For presenting such a catalogue, this Institution is deserving of the thanks of the public at large, and particularly of such associations as the Farmers? Club and the American Institute, as it shows in a condensed form the resources of our country as to its timber, and gives ready-to-hand statistics that have heretofore | committee should take notice, and act accordingly. existed only in the scattered pages of the writings of difone who has leisure, ability and inclination, to select give full and easily comprehended directions for their culture from the seed. Such a work would be of untold prove an enduring monument to the writer.

we are inclined to believe that one great reason why more forest trees are not planted, is because it is generally supposed that it requires land in such a state of ferother crops. This is a mistake. If there is strength enough in the soil to start the tree, after the first year it will take care of itself, its leaves when decomposed mak- and if they are sown as soon as ripe in good soil, they downward direction. ing more manure than the tree will require. Poor, sterile come rich. There are many s tuations where a single tree would not thrive, as on the prairie, a bleak hill-side, a barren plain, or near the sea, but where many are planted and rise together, they protect each other and deep. They will germinate in four or five days unless grow without difficulty. While we have no desire to see | the weather is very dry. large cities, devoted to wood, we do wish to see the bar- out from among the plants. Transplant the following of which we have millions of acres, converted into valua- they are not too thick, they may stand another year in able forests. Such things have been done in other coun- | the seed-bed. Then they should be transplanted into tries and can be here.

In the forest of Mar (in Scotland), on the estate of the Earl of Fife, many fir trees are from 100 to 120 feet high, tap-root, which should be cut offat least one half of its The locust, white-wood, larch, cherry, beech, cypress, and from twelve to fifteen feet in circumference, though | length-this will compel them to throw out a new set of the greater number of them grow on the side of hills so roots near the surface, and induce them to make a much encumbered with rocks that we can scarcely perceive soil more rapid growth than they otherwise would. If the enough to have nourished the seed, much less a tree of | soil is rich, they will make trees fifteen feet high and such dimensions. About 1767 the Earl of Fife planted on | three inches in diameter in four years after transplantthe rocks of Alva, oak, beech, elm, larch, red cedar, ing. at which time every other tree should be taken out birch and other trees. So unaccessible are these rocks, When they become too thick, take out again, until they that to plant the trees the men were put into baskets and | have room to grow to large trees. They should be pruned the plants with them, and thus lowered down the face of annually, in winter or midsummer, only leaving a suffithe precipice by means of ropes, and when they found | cien number of the upper branches to elaborate the sap | we decide upon its importance. any moss on the shelves or fissures of rocks they planted and keep a healthy growth. the young trees. During his lifetime he planted about They should also be well cultivated between the rows; for timber as well as for shade and ornament. 10,000 acres of land to trees. While we do not recom- keep down all grass and weeds; the more the soil is culmend planting in poor soil in preference to rich, or do not | tivated among them the better. see it profitable to plant in unaccessible places, we mention these facts to show under what difficulties trees will | varying the periods of transplanting according to the

> We will give but one more instance of planting, and to | what can be grown upon an acre. this, as there was a lady in the case, we desire particular

I came to live here (in 1770) there were not above four- ever other use they can be applied to make the most proteen acres set with trees. I believe that it was a received fit and leave the same number of young trees standing. notion, that no tree would grow here on account of the | In three years, if they are trees of rapid growth, they family who had lived here, either believed the common | which will leave 1,361; in three or four years after, we opinion or did not delight in planting." He continues: | should take out every other tree standing in the rows, "I had no pleasure in planting, but delighted in horses | which will leave them eight feet apart each way, or 680 and dogs, and the sports of the field; but my wife did | upon an acre. What the trees are worth that have been what she could to engage me to it, but in vain. At last | taken out, and what the 680 are worth, will depend upon she asked leave to go about it herself, which she did, and | what varieties they are, and what kind of a market you I was much pleased with some little things, which were haveif you wish to sell them. and the Barl of Mar, the Marquis of Tweedale and others, | wood is scarce of which the trees taken out at different admired the beauty of the work and the enterprise of the | periods of their growth will not pay all the expense of clumps in the shape of wildernesses, she proposed to balance net profit. plant a field of about 300 Scotch acres, called the Muir From this all her ladyship's friends as well as her lord for sugar, ripens its seeds in autumn. These do not gerwise. In 1707 she began Benningwood. The prejudice | soon as ripe, or mixed with moist sand and kept in poxes of the country being still against her, they continued to | in the cellar, or out doors, as freezing does not injure deride her, telling her it could be of no use. Success, them. Sow and treat them same as silver maple. It is a large tract of ground mostly dead sand, with very little | thinned so often. pa ed in the common prejudices, and thought it would be maple (Acer Plantinordes), and several others, ripen their lord and her country, overcame the prejudices of the sea growers of all, although one of the best for ornament; as make it bear?" and the barren moor being pernicious, and of borses and it costs but one cent each to work them on the silver dogs being the best amusement for a nobleman, convert- maple, it pays the grower to treat them in this manner, ing a dashing son of Nimrod into an industrious planter, rather than to wait for them to grow upon their own a thoughtless spendthrift into a frugal patriot.

His lordship goes on to say, the next was a field which it; and further, that he had a great deal more waste land, arts, and is of very rapid growth. and intended to plant it all. These woods were of all the usual sorts of timber; fir, beech, chestnut, larch, etc., in every sort of soil.

"Thus can good wives, when wise, in every station, On man work miracles of reformation;

And were such wives more common, their husbands would endure it; However great the malady, a loving wife can cure it;

While barren ground, where wood should be, appears in the European elm. every parish."

The Germans and French have many works upon this subject, and perhaps no nation has expended more money, or prize more highly the American forest trees, than the French. They can show at the present time more and better trees that are natives of this country, planted in a hundred years ago. William Forsyth, in 1789, while the streets of Paris, than we can in any ten cities of the United States. Although we have voluminous works, lands the importance of removing their forests, says that describing and giving the author's opinion of the merits he hoped that Great Britain may never be under the danof each native tree, yet none seem to call the attention of land-owners to the fact that they are letting the opportunity pass for laying the foundation of honor to themselves and wealth to posterity by planting our native forest trees. Perhaps'it is owing to the fact that we possess immense forests, that will supply our cities for many years to come with timber and fuel.

can be transported from our inland forests.

Many kinds of the most valuable timber now used in the arts are becoming very scarce, and, consequently, Northern States. command a high price. If some remedy is not soon

cherry are d'sappearing very rapidly, and there seems to wet or dry situations, and from several experiments Marshal Humphrey, in 1785, wrote a work, which was be no thought of replacing them; this should not be, for which we have tried with these, we have found that they thousands of acres that were once covered with these Lieutenant Emerich, in 1789, wrote "The Culture of | valuable trees are now but barren wastes, for it is not all of the land that is cleared of its timber that is cultivated

been leveled with the earth by the owners without the seed, leaving their upper surface even with the soil; giving a thought to those who may come after them. then give them a covering of two or three inches of Robert MacWilliams published in 1818, "The Culture The maxim of our countrymen has always been, "He leaves. This mode gives the air an opportunity of reachwho lives the longest must haul his wood the farthest." The above are all the works in English that we have It is generally thought, among the farmers, that only the atmosphere during the winter and spring months. been able to obtain that have been written upon this sub- nurserymen, who are skilled in such matters, are capable These varieties have long, perpendicular, fleshy roots, reof growing forest trees with success. If this is the case, sembling small parsnips when young, having but very A portion of many other books previous to this were it is only because they have given a little more attention few fibers, except at the lower end, and generally con-

Every farm in the country where land is cheap should North American Sylva," edited by J. J. Smith, of Phila- be surrounded by a belt or several rows of forest trees, improve the growth very much. not only for protection from the cold winds, for ornament give us but very little that is new in the art of cultivation, and shelter for the birds, but for profit. We are aware that the shade of such trees will lessen the product of the | it; then pass a sharp, thin spade under the trees, cutting

> In no place in the world is such a thing needed more | character of the root. than on the Western prairies; but sowing a field with tree seeds is a rarity in those sections as well as else- the coarse seeds, such as black walnut, hickory, etc., in

> read further on this branch of the subject, to the works the spade down within three or four inches of the row at we have named, which should be found in the library of the American Institute. If they are not there, the library

maple seedlings one year old for one dollar per thousand. time it is large enough for hoop-poles up to a size for We have done so, and on land the yearly rent of which timber or fire-wood. 30.000 to 50,000 hickory hoop-poles from this catalogue those trees that will in the future be was fifty dollars per acre, and yet at a profit. Some twyears since we raised, on one eighth of an acre, 40,000 trees, at an expense of \$18, not including rent of land. than it took for the first crop. The question is, will it If we can grow them under such circumstances, at such where the value of their land is merely nominal?

In growing maple from seed it should be born in mind that all the varieties do not ripen their seeds at the same | seed-bed, let them remain one or two seasons, then transseason-in fact, some do not produce seeds at all in this country-therefore each kind must be treated differently.

(Acer Dasycarpum) ripen their seeds here the first of June, off none but broken roots, and those that have taken a will make trees one or two feet high the first season.

as they do not keep sound but a short time.

We sow them in drills or beds one foot wide and three or four feet apart-covering the seeds only one half inch

rows four feet apart, and set two feet from each other in the rows. All side branches should be removed, also the the maple.

As this plan is applicable to nearly all forest trees (only growth of each variety), we will give a statement of just

When taken from seed-bed, plant in rows four feet apart, and the trees two feet distant in the row; this The sixth Earl of Haddington, in a work in the form of gives 5.445 per acre; in four years we take out one half, letters to his grandson, published in 1773, says: "When | which gives us 2,722 young trees for hoop-poles, or what-

There are certainly very few varieties in a section where

The sugar map'e (Acer Saccharinum), which is one of

The American elm (Ulmus Americana) is one of the he had often let to tenants, who could do nothing with | most noble ornamental trees, and is much used in the

The seeds ripen about the first of June, and they should be sown as soon as ripe (in fact, this rule is apbut oaks were the favorite, and succeeded extremely well | plicable to all forest tree seeds); a portion will germinate the same season, but a greater portion will not until the following spring. The seeds are very small and delicate; they should not be covered more than one half inch deep. If the weather is dry, cover the seed-bed with some litter, such as hay or chaff, just enough to shade the ground

and keep it moist. William Bautcher says, in his time, that the American And much their aid is wanted, we hope they'll use it elm had been but lately imported into Scotland, but that he had grafted it successfully on the different varieties of

> It would be folly for us to graft it upon any other variety, as it is the most rapid grower of all. He says, further, that he has sold English elm for a guinea each that he had grown from seed. They were 24 years old, 18 inches in diameter, and 40 feet high.

Here is a sample of what men were doing in Britain urging upon the English noblemen and proprietors of gerous, as well as disagreeable necessity, of trusting the safety of her seamen upon anything inferior in texture and less durable than the hardy English oak. These sentiments should be our own, only changing American for English oak, for the superiority of our white and live oaks is acknowledged throughout the civilized world.

The American white oak (Quercus Alba), the strongest But it must be recollected that the next generation, of all the native oaks, should not be neglected. Its and, perhaps, some of this, will see the day that forest value is well known to our ship builders, as well to those trees can be grown near our seaboard for less, and of bet- who build docks and piers in our harbors and rivers. It ter quality (as has been done with the locust), than they is easily grown from the acorn, sown in the fall, covered very thinly with earth, and then covered with leaves.

The live oak (Quercus Virens) will not thrive in the

All the varieties of oak, chestnut, black walnut, horse found, we shall have to pay still more for a poorer chestnut, and similar varieties, seem to possess seed that contain an element which produces several kinds of Our forests of white oak, black walnut, and black fungi when they are excluded from the air, either in very germinate best where they can be kept continually moist, but yet in contact with atmospheric air.

We have succeeded best with these coarse seeds or nuts by sowing them in the fall upon the surface of the soil, Our forests have been thought inexhaustible; they have then sifting on earth enough to fill up the spaces between ing them, and they are protected from the changes of pruned in the seed-bed one season before transplanting, they can be removed with very little risk; besides, it will

This is easily done by plowing a furrow along-side, turning it from the row, and within five or six inches of land so shaded, but we are, nevertheless, of the opinion off the lower end of the tap root six inches or more from the surface, depending somewhat upon the length and

When the grower has plenty of land it is better to sow single dri'ls; if sown thus they can be root-pruned with We would respectfully recommend those who desire to very little difficulty, without plowing a furrow, by passing an angle of 45 degrees.

The different varieties of the hickory (Carya) deserve special attention, and ought to be planted extensively, as We stated, at a previous meeting, that we could grow there is no other tree that is in greater demand from the can be grown upon an acre in five or six years, and when cut down the root will throw up another set in less time pay?-the proprietors of suitable land must answer. The value to our country in future generations, and would a price, why can not our farmers do so at less cost, hickory has always been considered very difficult to transplant, but if properly grown none are more easily removed. All that is required is to root-prune them in the plant into nursery rows, and root-prune again before planting; always cut the lowest roots. In two or three The red maple (Acer Rubrum) and the silver maple | years they should be taken up and pruned again, cutting

> If this plan is followed, they can be transplanted any The seeds should be sown immediately after gathering, time up to 20 years old, with perfect safety. It will not be necessary to root-prune only when they are grown for the purpose of transplanting for street or lawn trees.

The pecan nut (Carya Oliviaformis), which we have in. our markets, is one of the hickory family, and it should be planted by some of our Eastern farmers in orchards extensive tracts of fertile arable lands, particularly near They should be hoed frequently, and all weeds pulled for the fruit. It bears abundantly when quite young, and its fruit commands a good price. All the young trees are

The white ash (Fraxinus Acuminata) is another rapidly. growing tree. The value of its wood is well known. None are more easily grown. Sow in fall, as directed for

and many more of the deciduous trees, are worthy of our attention for the value of their timber, which can be made available in a few years from their seeds. But there is another class which may be designated as the ornamental, of which millions are now, and will be wanted in our cities to embellish streets and parks.

Some of the evergreen trees, perhaps, may be growneven for timber, at a profit; but we want more experiments in this branch of industry in this country before

We hope the American Institute will soon purchase that long talked of experimental farm, where agricultural and horticultural experiments can be carried ou under the management of the Board of Agriculture, who will have no object in keeping facts from the public. This farm should be located in some place convenient of access, within fifty miles of New York. No better opportunity for purchasing land for that purpose will ever come than at present.

Upon this farm every experiment from which valuable results could be expected, should be tried. Then we could have facts gathered from actual experiments, that would be of incalculable benefit to the country and honor to the American Institute. This farm can be made selfcur in cultivating.

If a tract of a hundred or more acres were purchased in some locality where land can be had cheap, so soon as operations were commenced all the adjoining land would immediately rise in value. This would, in return, increase

the value of the farm. From the reports of our officers it seems that we have made no money from our annual exhibitions, and that the only source from which we have made money is upon the real estate owned by the Institute. As this is the case, why may we not with safety attempt the carrying out what we are informed was the original design of the founders of this Institute, that is, an experimental farm.

morrows Raising Figs.

"A Boy Subscriber" in Crawford co., Pa., however, always give her encouragement. The next was not so rapid a grower, and consequently, should not be writes to the American Agriculturist: "A grass, and very near the sea. Here her ladyship partici- The European maple (Acer Pseudoplatnus), the Norway neighbor of ours in eating some purchased figs three years since, saved and planted the on a visit, told her he had seen timb r growing on such | There are several varieties of maple which are used seeds. They sprouted, and he presented me. with one of the trees. It has grown well, but grew to the astonishment of all who saw them. Thus rapid growth, it makes a good stock on which to graft it has not borne any fruit. What shall I do to

> In reply to which the editor says:-"Your tree is scarcely old enough yet. You would: not expect apples the third year from seeds.