

MOORE'S RURAL NEW-YORKER



TERMS, \$3.00 PER YEAR.

"PROGRESS AND IMPROVEMENT."

[SINGLE NO. TEN CENTS.]

VOL. XVI. NO. 20.

ROCHESTER N. Y.—FOR THE WEEK ENDING SATURDAY, MAY 20, 1865.

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MOORE'S RURAL NEW-YORKER,
AN ORIGINAL WEEKLY
RURAL, LITERARY AND FAMILY NEWSPAPER.

CONDUCTED BY D. T. MOORE,

HENRY S. RANDALL, LL. D.,

Editor of the Department of Sheep Husbandry.

SPECIAL CONTRIBUTORS:

F. BARRY, C. DEWEY, LL. D.,
H. T. BROOKS, L. B. LANGWORTHY,
T. C. PETERS, EDWARD WEBSTER.

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AGRICULTURAL.

THE SOIL OF THE SOUTH:

ITS FUTURE POSSESSION AND CULTIVATION.

Now that the rebellion is over, the Union likely to be speedily restored, and peace to prevail throughout our borders, the re-population of the South is becoming a question of vital importance. The questions involved are very properly attracting much attention, and being discussed both in this country and Europe. The matter is one in which the people of the North, and especially the producing classes—and the agricultural most of all—have and should manifest a great interest, for the possession and culture of the Southern soil by intelligent, enterprising and loyal Northerners, and foreigners friendly to our institutions, will not only result in permanently restoring the seceded States to the Union, but must eventually affect, to some extent, the growth and prosperity of the North and West.

It is truthfully averred that the capacity of the South to receive colonists is almost unlimited, and thousands in this country and Europe are already preparing to settle in what they believe to be the goodly land. And certainly there is "ample room and verge enough" for millions of people—for, without reckoning the immense losses of population occasioned by the war, and supposing that the inhabitants still number as many as they did in 1860, it is demonstrated by the census of that year that the South is one of the most thinly peopled parts of the civilized world. "Its average population is not more than ten to the square mile, while that of New York, for example, is upwards of eighty to the square mile, and that of Massachusetts upwards of one hundred and fifty. The seceded States with their mild climate and fertile soil and valuable products, and their immense facilities for commerce and navigation, could receive and furnish subsistence and profitable occupation to a million of emigrants annually for many years to come. They offer to the enterprising and industrious laborer or mechanic or farmer one of the most inviting regions of the world, and to the capitalist there is no better field open for the profitable investment of money than that now offered by the plantations, the ports and the towns of the South."

The climate of the South has been a great bugbear to many of our people, formerly, but now that our armies have traversed and lived for years in some of the worst localities, the truth is becoming known, even abroad. A late number of the Northern Whig, published in Belfast, Ireland, has an excellent article upon emigration to our Southern States. It is supposed to be from the pen of Prof. CAIRNES, an ardent friend of American institutions, and shows a thorough knowledge of the condition of this country. It demonstrates that the bugbear of a tropical climate should have no influence; no part of the United States is within the tropics, and in Texas, which most nearly approaches them, the German settlers find the climate healthy, and are among the most successful cultivators of the soil. Prof. CAIRNES predicts that the ten or twelve thousand great slave

owners of the South, at whose instigation the war was commenced, will be impoverished and discredited and their influence forever overthrown. The poor whites have been thinned out by the war; the South is still largely unoccupied territory; slavery no longer exists to exclude free industry, and when once peace is re-established there will be a rush of emigrants from Europe and the Northern States to the fertile fields of the South; a new population will thus arise, which will owe everything to the North and to the Union, and the spirit of treason will die out with the aristocracy of the plantation.

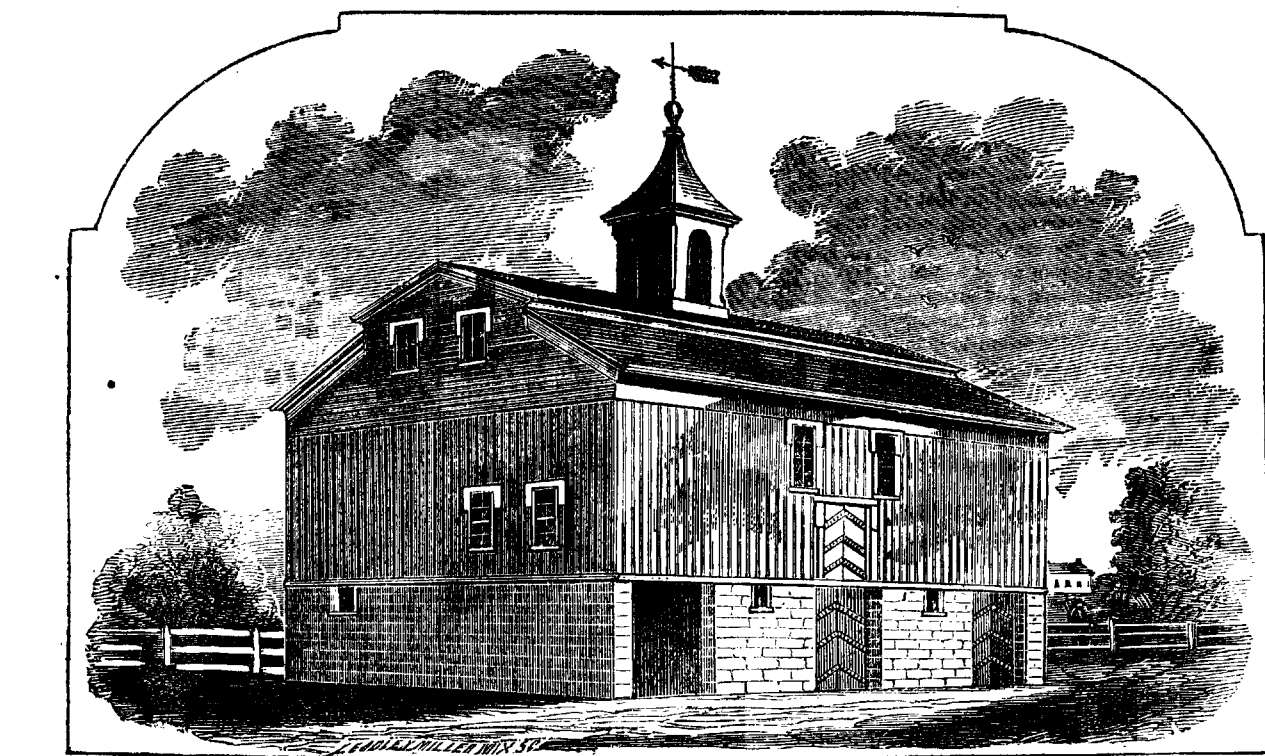
The inducements for emigration to the South are certainly great, particularly for people in the old world, but those who own real estate—improved farms, etc.—in the Northern States should not decide upon a change without due deliberation as to the consequences. We have given above, the general, popular view of the picture, but it has a reverse. Those of our readers who are looking Southward—especially such as are now located in favored sections, with good society, schools, churches, etc., convenient—should "count the cost" to themselves and families, of a change to a region where they will, for awhile at least, be deprived of many of the privileges and enjoyments now within their reach. The difference in climate and staple crops should also be considered. Many sections of the South are not adapted to the mixed husbandry of the North—for in one region cotton is the staple, in another sugar, and so on. In some localities the cereals, grasses and fruits are produced, while in others it is only profitable to grow certain staples. Of course those accustomed to growing a variety of crops should not, without careful consideration as to the consequences, change to another and different style of husbandry, involving particular knowledge and perhaps a large outlay. Young men of limited means, about to start in life, will make good pioneers in the settlement and improvement of the Southern country, and upon them will depend, in a great measure, the progress for the next decade of the semi-tropical region to which so many eyes and hearts are now turning with anxiety and solicitude. Many of our brave volunteers will undoubtedly locate in the South, and we trust all such will ere long be enabled to thank God that the cruel war being over, their lives have fallen in pleasant places—sitting peacefully and happily under their own vines and fig trees.

The occupation and culture of Southern Soil by live, wide-awake, intelligent and enterprising Northerners, must eventually affect the interests of the Rural Population of the Northern and Western States. It may depreciate the value of landed property, and affect the prices of some of our leading products. For instance, such an impetus may be given to cotton growing as to greatly cheapen cotton goods, and thus lessen the price of woollens—but we do not anticipate that such will be the result for some time, if ever. We who remain at the North, must await the developments of seasons and events, and govern ourselves in accordance with the dictates of prudence and wisdom. It will be wise, meantime, to cultivate and manufacture such articles, and breed such animals, as will be in demand at good prices, whatever the result of the re-occupation of Southern territory. But we have written enough to accomplish the object in view—to enlist the attention and minds of our readers to the subject, that each may make such investigation, or take such action, as may be deemed necessary to promote his present or prospective interests and welfare.

THE POTATO:

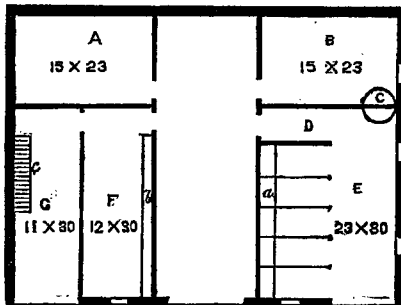
ABOUT ITS HISTORY, VALUE AND CULTURE.

The Common Potato, (*Solanum tuberosum*), is ascertained to be a native of South America, it having been found both in Buenos Ayres and in Chili. It is peculiar to a hilly and rocky soil, and flourishes near the sea shore. At the time of the discovery of America it was undoubtedly grown in the Andes of S. A., although unknown in Mexico, and only shortly after in the United States. The first colonists sent out to Virginia by Sir WALTER RALEIGH, in 1584, found it growing wild in that State. The wild potato has white flowers, its tubers are small, rarely attaining a length of two inches, and have an insipid taste. From these, by judicious cultivation, have sprung the almost innumerable number of varieties at present cultivated, and adapted to all climates and sections of the inhabited world.



PREMIUM PLAN OF A WESTERN NEW YORK BARN.

ABOVE we give a perspective view of a Barn located in one of the richest sections of Western New York—a portion of the Genesee Valley long famous for its superior cultivation, productive soil, fine farm buildings and the intelligence, morality, general good management and consequent prosperity of the people. This plan was awarded a premium from the large number sent in under our offer some years ago, and is re-published in response to inquiries and for the reason that we think it will meet the wants of many who were not subscribers at the time of its former appearance in the RURAL.



PLAN OF BASEMENT.

A, Tool Room; B, Root Cellar; C, Cistern; D, Hall; E, Horse Stable; F, Cow Stable; G, Open Shed; a, Mangers; b, Feed Box; c, Stairs.

This barn is situated in the town of Wheatland, Monroe Co., N. Y., on the farm of IRA ARMSTRONG, by whom it was built in the year 1855. It is located upon a level piece of ground, the entire building being above the surface. The size of the structure is 45 by 60 feet.

THE BASEMENT STORY is built of stone, and

is 9 feet high, with 10 stalls for cattle, and a place to throw manure out into the open apartment where it can be preserved under cover. This open apartment, or shed, as it is sometimes called, is 11 feet wide by 30 deep, and is marked G on the ground plan. There is a large Root Cellar opening into the main hall or carriage floor, fifteen by twenty-three feet, convenient to both horse and cow stables. A blackboard on wall of carriage floor is very convenient for writing down amount of feed, &c. The horse stable has conveniences for six horses, with a cistern of water holding some 500 barrels. All stock can be watered without going out of the barn in coldest weather of the season. The cistern is covered with red cedar, 10 inches thick; sides of cistern are stone, and plastered. There is also a large Store Room for tools and implements, large enough to house all the farm implements.

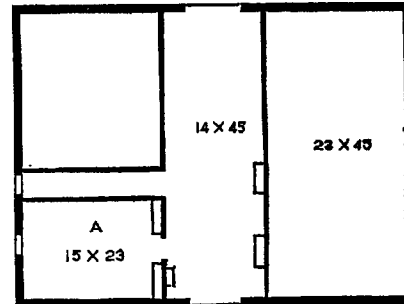
THE MAIN FLOOR contains a Granary, large, and conveniently divided and arranged. From it are spouts leading to the Carriage Floor of basement, so that the contents of the granaries can be received into a wagon below, or used otherwise, as may be convenient. There are two large bays, and a large barn floor, 14 by 45. The Stables are supplied easily through trapdoors from the main floor, as shown in the plan. The scaffolds are reached by movable ladders, which may be changed to any locality desired.

The windows of basement are supplied with pulleys, so as easily to be moved, and ventilate the entire lower floor.

THE OUTSIDE FINISH is with good matched stuff, battened to the eaves, and the gable-

ends are clap-boarded. The whole is finished with three coats of white paint.

THE CARRIAGE WAY is on the south side of the building, and is made of easy grade, whilst the floor of the barn upon the south side is about ten feet from the ground. This makes it convenient in stacking straw after thrashing.



PLAN OF MAIN FLOOR.

A, Granary, with openings for passing grain below; between this and the bay is a hall. The barn floor is large, with two openings for passing hay and feed below, for use in the stables, and on the right is the large Bay, 25 by 45 feet, in which may be stored an immense amount of grain or hay.

This barn is so arranged that all parts are easily accessible, and when once in the building you can get to any part with ease. There is so much room that all the crops can be housed with ease, and with little labor.

THE YARD is supplied with water from a well about 80 rods off, by a syphon.

The builder was CORMINE MARTIN, of Avon, N. Y., and the cost, (when constructed in 1855,) about \$1,500.

From Virginia it was introduced into England and Ireland in 1586. It was first planted by Sir WALTER RALEIGH on his estate near Cork; its first production was cherished and cultivated for food in that country before its value was known in England. In 1597 GERRARD had this plant in his garden under the name of *Battata Virginiana*, and advised it to be eaten as a delicate dish, not as common food. In the seventeenth century it found its way over the rest of Europe, but its fullest reputation was not obtained till the nineteenth century, when its innumerable varieties shed their blessings on all the nations of the civilized world.

The potato is one of the most important farinaceous plants ever given to the world. There is no article of human diet that enters so generally into consumption, and from no crop that can be grown will the public derive so much nourishment as from this esculent. They are not only nourishing and healthy, but are relished by nearly every one. We can in a measure comprehend its importance as food, when from its partial failure through disease or rot, as a few years since was the case in Ireland, starvation stared the inhabitants in the face, causing untold misery and distress; but for foreign supplies of good actual starvation and death would have

been the necessary consequence among a large per centage of the people. It would then seem that it should become a matter of much importance to nourish and cultivate with the nicest skill, a plant of such value in the domestic economy of man.

It would be vain in me to attempt to give particular rules for cultivation which might be universally correct; for what might be suited to one locality, or circumstance might, under different circumstances, in different localities, prove entirely unsuitable. A few things are agreed upon as applicable and should be followed everywhere. Potatoes flourish and give the best returns on high, rather dry ground, in good heart and tith, mellow soil; plant early; if manured in hill, good compost, well rotted and fine, is as good as anything and vastly superior to fresh yard manure, which is, of the two, injurious to the crop; low instead of high hill culture; no working among after blossoming; dig when fully ripe, not leave them in the ground through the fall rains, allow them to dry so that the dirt will fall off before picking up; store them in a dry airy cellar in small instead of large bulks; keep at as low, even temperature, as practicable without freezing. These general rules if followed will give results that will satisfy the most par-

ticular, in the opinion of the writer who has seen them tried.

In the foregoing our young friends who referred the question of the nativity of the Potato to the Editor of the RURAL a few weeks since, will find a more full answer, which I hope will stimulate them to further inquiry as to how the vigor and vitality of this plant may be improved and continued; also as to what various uses the potato is put aside from food; its chemical properties and analysis, etc. W. H. WHITE, South Windsor, Conn.

REPAIRING ROADS.—A writer in N. E. Farmer says there are many places in the highways where the ground is wet, because springy, and almost impassable in the spring or fall. Such places may be made dry by digging a ditch in the middle of the road, of suitable depth; partly filling the same with small stones, then covering them with brush, and the brush with the earth thrown out. The middle of the road is thus raised above its former level by the amount of stones and brush used. By extending the ditch thus constructed to some place at the side of the road, that will admit of it, a permanent improvement will be effected. Is not the suggestion a good one for other meridians than New England?

Sheep Husbandry.

EDITED BY HENRY S. RANDALL, LL. D.

THE STATE SHEEP FAIR.

The first Annual Fair of the New York State Sheep Breeders' and Wool Growers' Association was held at Canandaigua on the 9th, 10th and 11th inst. That it was a great success, that it far exceeded any previous exhibition of the kind in the United States, is generally conceded.

And the weather was exceedingly unpropitious. The first or entry day was cloudy and chilly—holding out decided indications that it was the immediate precursor of a long, cold storm.

When the hour for shearing arrived, it was the opinion of most that it could not proceed with safety to the sheep—but several owners came forward and declared that they would "carry out the programme," whatever the consequences; and accordingly it went on.

But in spite of all of them, between six and eight hundred sheep of superior quality were on exhibition—all the premiums were paid promptly down, except about thirty dollars uncalled for—every disbursement was met, and the Association had a balance of several hundred dollars left in its treasury as a "nest egg" for the future!

The principal out-door arrangements for the exhibition were excellent, and they were in a great measure due to the highly efficient efforts of Hon. E. B. POTTER, the General Superintendent, and JOHN MALTMAN, Esq., Chairman of the Local Committee.

The following are the entries which were made—a pen of ewes in all cases signifying five. The rams were entered separately, but to save space we have mentioned together each man's lot of same age and class:

- CLASS I.—AMERICAN MERINOS. A. H. Clapp, Pompey, N. Y., 1 ram, 2 years or over; 2 yearling rams. R. A. Avery, Gloversville, N. Y., 1 ram, 2 years or over; 2 yearling rams.

- Harlow Brothers, Darien, N. Y., 1 ram 2 years or over; 1 yearling ram. Delos Blodgett, Gorham, N. Y., 1 pen yearling ewes. Marriner & Bronson, East Bloomfield, N. Y., 1 ram 2 years or over; 1 pen ewes 2 years or over.

- CLASS II.—FINE MERINOS. William Chamberlain, Red Hook, 1 ram 2 years or over; 1 yearling ram; 1 pen ewes 2 years or over.

- CLASS III.—DELAINE MERINOS. R. A. Avery, Gloversville, N. Y., 2 yearling rams. John Maltman, Canandaigua, N. Y., 1 pen ewes, 2 years or over.

- CLASS IV.—LONG WOOLLED SHEEP. E. Gazley, Pleasant Plains, N. Y., 3 rams, 2 years or over; 3 yearling rams; 1 pen yearling ewes.

- CLASS V.—MIDDLE WOOLLED SHEEP. Wm. C. Meek, Canandaigua, N. Y., 1 ram, 2 years or over; 1 yearling ram; 1 pen ewes, 2 years or over.

- CLASS VI.—SWEETFAKES. R. A. Avery, Gloversville, N. Y., 1 ram, 2 years or over. H. H. Randall, Addison Co., N. Y., 1 ram, 2 years or over.

- CLASS VII.—AMERICAN MERINOS. A. H. Clapp, Pompey, N. Y., 1 ram, 2 years or over; 2 yearling rams. R. A. Avery, Gloversville, N. Y., 1 ram, 2 years or over; 2 yearling rams.

Arnold & Green, Gorham, 1 ewe, 2 years old. J. C. Taft, West Bloomfield, 1 yearling ewe. Wm. W. P. Conroy, 1 ram, 2 years old.

(Owing to the inclemency of the weather, some of the above sheep were not shorn, and consequently were withdrawn from competition.) Sheep entered for the exhibition only, are not included in any of the preceding classes.

- Viewing Committees. 1st Class.—On rams 2 yrs old or over, A. F. Wilcox, Fayetteville, N. Y.; W. A. Cook, Lima, N. Y.; T. S. Steele, Shushan, N. Y.

- Award of Prizes. 1st class, rams 2 years or over.—1st prize to C. D. Sweet; 2d, to Henry Robins; 3d, to Percy & Burgess.

Shearing. Name of Owner. Sex. Age. Corp. Wt. in lbs. Fat. in lbs. No. of Wags. No. of Locks. No. of Curds. No. of Cruds.

Table with columns: Name of Owner, Sex, Age, Corp., Wt. in lbs., Fat. in lbs., No. of Wags, No. of Locks, No. of Curds, No. of Cruds. Lists sheep from L. J. Bovee to M. F. Gibbs.

GEORGE B. SACKETT weighed the fleeces. CHARLES O. SHEPHERD weighed the sheep, and H. N. JARVIS kept the record, except that in the case of the last eight sheep the record was kept by another gentleman.

The fleeces of the sheep entered for the special premium of \$50 offered by Mr. MOORE on scoured wool, have already been forwarded to the agent of a woolen manufacturing company, with directions to cleanse each fleece separately, and precisely as he would cleanse it for manufacturing purposes.

We have not space to remark particularly at this time on the quality of the sheep exhibited. A considerably greater number of choice rams were shown in the first class than we ever before saw together—and the ewes were also, as a whole, excellent, though many of them lacked the fashionable amount of "fitting up."

2-year old ram to JERETHA A. POTTER, Penn Yan, N. Y., and JOSIAH C. TAFT of West Bloomfield, N. Y., for \$3,000; and HENRY ROBBINS of East Cornwall, Vt., sold his 3-year old second prize ram to MILES RAPALEE, Himrode, N. Y., for the same price.

CONDENSED CORRESPONDENCE, ITEMS, &c

LIFE MEMBERS.—The following gentlemen became Life Members of the New York State Sheep Breeders' and Wool Growers' Association during the week ending May 18th—making the whole number of members one hundred and fifty-four:

- Josiah C. Taft, Esq., West Bloomfield. Daniel Ellis, Esq., Canandaigua. Herbert Brown, Esq., Canandaigua.

SHEEP ON THE KANSAS PRAIRIES.—R. A. STEELE, Bloomington, Douglas Co., Kansas, writes us:—"This is a good country for sheep, probably the best in the Union. Cost of keeping is trifling compared with other localities.

MINOR RURAL ITEMS.—Short-Horns were recently sold by H. G. WHITE, South Framingham, Mass., to F. W. MOOD, Grafton, Mass., as follows:—"Ada," by Earl of Warwick, (465; "Governance 4th," by Duke of Orleans, (857; "Dann 2d," by Monitor, (5019.)

SPLENDID SHEEP LANDS IN MISSOURI.—Dr. H. N. MINER, Hanover, Jefferson Co., Mo., writes us:—"I remember an inquiry in your paper, some time since, for 'Good Sheep Lands.' My judgment says that South-east Missouri is the place, all things considered.

THE SAME FELLOW.—A few days before the spring election, when in Rochester, we met a thin and slender man with gold spectacles on his nose and a smile on his countenance.

ANTIQUITY OF MERINOS.—A. B. ALLEN, New York, calls our attention to the statements on this subject found in Prescott's Ferdinand and Isabella. In Vol. I, p. 55 of introduction, in note, LABORDEZ is quoted as referring to the migratory Merinos of Spain to the middle of the fourteenth century, but Prescott says: "This popular opinion is erroneous, since it engaged the attention of government, and became the subject of legislation as early as 1273, under Alfonso the Wise."

SCREENINGS FOR SHEEP.—I. D. G. NELSON, Fort Wayne, Ind., writes, in answer to questions put in these columns, that owing to the scarcity of the corn, hay and turnip crops (occasioned by the extreme drought of last summer) he wintered about 40 Cotswold and Leicester breeding ewes almost exclusively on wheat straw and screenings, with a very few turnips once a day.

FEVER.—J. P. WEBSTER, Waucoma, Fayette Co., Iowa, says there is a disease among the flocks of that region called the heaves, in which the sheep "breathes like a horse with the heaves, has not much appetite, pines away and dies." This is doubtless some form of fever, or a disease accompanied by fever.

TAX OF FARM PRODUCTS.—The following is an extract of a letter from the Commissioner of Internal Revenue to an assessor in New York:—"There is, in the first place, no provision in the law for exempting farm products sold from tax on account of their having paid one tax already; and, in the second place, it is clear that, in a majority of cases, it is only apparently the fact that a second tax is paid. There may be exceptional cases to the contrary; but, as a general rule, farmers sell the same portion of their products each and every year, and there will remain over, after the last year of tax, the complementary fraction of products left unsold year by year, and consequently escaping taxation."

A LARGE BULL.—The Vermont Journal gives the following as the dimensions of a bull owned by W. R. DEAN of Factory Point. Length from root of horn to root of tail, 10 feet; from point of shoulder to point of hip, 7 feet 10 inches; girth, 8 1/2 feet; height, 6 feet and 2 inches; height (surface measure), 6 feet and 8 inches; weight, at 2 years 11 months old, 3,000 lbs.

Rural Notes and Queries.

"THE GREAT SHEEP FAIR AT CANANDAIGUA."—Is the heading of reports which we observe in several of our exchanges. So far as seen, the accounts of the show are, without exception, favorable—speaking of it as the best exhibition of sheep ever made in America—and we congratulate the sheep husbandmen of the State upon the result.

THE SEASON is pronounced early in most parts of the country, and it has been such in this region so far as average temperature is concerned, yet we have had much cool, damp weather, retarding or preventing the planting of many crops.

CROP PROSPECTS IN THE GENESSEE VALLEY.—In speaking of the crop prospects up the Valley, the Livingston Republican of the 11th inst. says:—"Not in years has the wheat crop in the Valley and in this section looked more promising than at the present time. The heavy fall of snow in early winter gave it a covering that protected it from the weather, and March and April were also exceedingly favorable for its growth.

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HORTICULTURAL.

EARLY SPRING FLOWERS—NOTES IN THE GARDEN.

DOUBLE TULIPS.

The *Tounezel Tulips* are now passing out of flower, and the early double varieties are opening finely. The early single varieties are in perfection. The *Narcissus* family, too, are splendid—never finer. The *Polyanthus* varieties are charming, and in a well drained mellow soil will always succeed. In fact, many plants considered tender 'prove quite the contrary when planted in a warm, dry soil. The *Giant Lily*, which we left out for experiment, is now up and growing nicely—almost or quite as vigorously as those kept in the house during the winter. The *Polyanthus* beds are entirely uninjured—not a plant lost, and a better show of flowers cannot be desired.

Some persons complain of losing Carnations and Pinks in winter, but we never lose a young plant, and cannot think there is any danger in a dry soil. Old plants will suffer, and never should be relied upon. Always have new plants from seed or layers. Of the Double Tulips, now in flower, (May 15th,) we notice the following:

- Bonaparte*, rich, reddish brown.
- Blue Flag*, a fine, tall tulip, as near blue as any, though somewhat purplish.
- Compte de Pompadour*, large and showy, red, bordered with yellow.
- Duke of York*, reddish, strictly puce perhaps, broadly bordered with white. A magnificent flower.
- Grand Alexander*, yellow ground, beautifully striped with red.
- Incomparable*, dark rose, bordered with white.
- Rose Botanic*, fine, deep crimson.
- Purple Crown*, splendid dark velvety crimson. Hardly the color that the name would indicate, but a fine, rich flower.
- Pearly Rose*, flower small, fine scarlet.
- Pearl Gold*, deep yellow, striped with red.
- Milton*, large, purple.
- Nosor*, rich, purplish chocolate.
- Rosine*, beautiful rose and white. This is one of the earliest of the double varieties, and very delicate and attractive.
- William Rex*, brownish purple, tall and excellent.
- Xenophon*, dark crimson, striped with yellow.
- Dwarf*.
- White and Red Bordered*, reddish lilac, beautifully bordered with white, a very early and fine variety.
- Yellow Rose*, bright yellow, perfectly double. One variety has finely striped foliage.
- Rex Rubrum*, a magnificent flower of the deepest scarlet.

The *Late Tulips* and the *Parrots* will probably be in flower in time to allow of some notes in our next.

OF THE HERBACEOUS AND PERENNIAL PLANTS we notice the following:

- Phlox Procumbens* is a very pretty spring flower. As its name indicates, it is procumbent in habit, keeping close to the ground and sending up flower stalks about four inches in height, with fine clusters of flowers.
- The *Dianthus Spectabilis* is really one of the most valuable of all our early flowers. It is as hardy as an oak, an exceedingly free bloomer, without a fault that we know of, and good everywhere; in the parlor, the greenhouse and the garden. The flowers are enriens in form, something like a purse, and some twenty of these curious bells are attached to a gracefully pendant foot-stalk.
- The *Sweet Scented Violet* is the sweetest of all the early spring flowers, and, like the *Sweet Mignonette*, it is a general favorite on account of its fragrance. A single flower will perfume a room; and often have we entered a room with a violet concealed, when in a minute the exclamation would be—"what a delightful fragrance." A cluster of two which any person can procure at a nursery for 25 cents, will make the garden deliciously fragrant. There are white and blue varieties, both single and double, but the double blue is the best. We give an engraving of this plant and flower. Herbaceous plants should be set out, if possible, in the autumn.

SPRING GARDEN FARM—ONION CULTURE.

THE GARDEN OF DANIEL ODIERCK is situated three miles south-west of Newark. Here are two lovely springs, situated upon elevated beds of rocks; these are similar to each other, the lower one, however, being two or three times larger than the upper one, and in every way more beautiful and picturesque. The springs are separated by a space of at least fifty feet. For many rods around, the same reddish grey, porous rock prevails. Naturalists suppose that this rock was formed through the accumulation of ages by the water. The streams which issue from the upper spring, or source, run along their deep worn rocky beds, perhaps ten feet, where there is a fall of four or five feet. Here a natural spot is formed in the rock, under which the kitchen maid can set her pail and fill it in a few seconds. The springs are surrounded by forest trees and wild flowers. The little forget-me-not and climbing honey-suckle flourish here. The lower spring is so hedged in by the surrounding shrubbery, foliage, and trees, that no one could wish for a more retired or lovely retreat.

Mr. ODIERCK, the proprietor, has kept a market garden a number of years; he was the pioneer of the onion bed in these parts. Hundreds of people have, during a single summer, stopped to admire Mr. O.'s great swamp of onions, exclaiming "I never saw so many before!" "Did you ever see such large ones?" "They're as big as tea saucers," exclaimed one old lady who sent twenty miles for her winter supply. After Mr. O. went into business many



THE DOUBLE SWEET SCENTED VIOLET.

others embarked in the same enterprise. Five times as many onions were raised as before, and nearly all met with home consumption. Some prospered, but many, from lack of knowledge and adaptability to their business, failed. For instance, an enterprising tailor hired two acres of green-sward, ripped it up and sent off for guano; hired largely and failed completely,—not making enough to pay his expenses. A wealthy farmer's son, obstinate and fractious, overleaped his father's advice, hired five acres and emerged into onion raising. He, too, hired largely and failed,—departing in the fall for the gold regions, and leaving his father to pay up arrearages.

Good seed is of the first importance in onion growing. It is possible that all persons who engage in this business do not know that not one seed in ten will ever germinate that is more than one year old. It is wise to raise one's own seed. The seed often rots in the ground. This occurs mostly from spring drought. Onion seed should be sown as early as the 20th or 25th of April. I have known a fine fall of snow after Mr. O.'s onions were all sown, and as the sun shone out and the snow disappeared, long rows of onions were soon seen shooting up, followed by weeds, weeds, weeds; then the laborers proceeded to work, some upon their knees, thinning out, others with the hoe. By the regular process of sowing onions with a drill, five times as much seed is sown as is needed,—but this is a fast age, and who now would think of dropping acres of small seeds by the slow, bent-back, finger-and-thumb process? The first weeding, then, is a mere thinning out process, wasteful and useless, except that the stirring of the ground thus early facilitates the growth of the slight infant bulb. I have seen boiling water thrown upon onion seed before sowing; if a few seeds chance to remain in the vessel over night some would be slightly sprouted.

Some persons ask through the *RURAL* if onions will grow upon green-sward. I would answer that land for this purpose should be well plowed and thoroughly subdued the previous year. The soil of Mr. O., who has been most successful, is a sandy loam. First a good coating of manure is plowed in, and as the onions make their appearance they are top-dressed from the muck and manure compost heap. I have witnessed a similar process from my window at the approach of a lovely May shower, and the following day the onions would seem to have grown half. Muck is the great onion feeder. The onions are always larger where a black streak of muck is observed. Last year Mr. O. fenced off a part of his barn-yard for onions, expecting enormous sized ones. Communicating with this the land runs down to a level plain of dark rich earth; here the onions grew very large; those upon the barn-yard were a size larger than a lady's thimble. The ground, although rich, was hard and cold, and needed working and exposure to rain and sun. Most persons when buying onions, will speak rapturously of the large ones. Who don't know that the smaller ones are always the finer grained and the sweetest? So with almost the whole vegetable kingdom.

About the middle of August the onion tops are rolled down to die, and in a few weeks the larger ones are ready for market. As soon as the onions ripen they are pulled and left upon the ground to dry. Then the barn floors, wagon house, sheds and all available spaces are vacated, and the onions wheeled in and spread as thinly as possible. They are then trimmed, sorted and carried to market. If onions are not gathered before the fall rains set in, they are pretty sure to rot or take on a second growth.

Newark, N. Y., May, 1865.

TO RAISE MELONS.

A CORRESPONDENT writes the *New England Farmer* the following, as his mode of successfully growing melons:—"Take a barrel with both heads out, set it up on the surface of the ground and fill in as much manure as you please—it will do on arm to fill it full—then raise a mound of earth around it, and plant the seeds on the sides of the mound. If too much rain falls, cover the barrel, but in dry weather turn water into the barrel, and it will soak out among the roots without baking the surface. A little old straw should be placed in the top of the barrel."

LITTLE THINGS IN A GARDEN.

IN planting the family garden, all the standard vegetables will suggest themselves as things necessary to be provided for, but much of the comfort afforded by the garden consists of the numerous little things it affords—things which in themselves can hardly be considered as food, but which add to the attraction of the table by rendering other food more palatable. Those who are fond of pickles will in time provide for Cucumbers, Martynias, Peppers, Green Musk Melons, Refugee Beans, and all those things which are used for pickling, not forgetting the spicy Nasturtium. Parsely is valued by most people as a flavoring herb, and it is very handy to dress a dish of cold meat. The seeds are very slow in germinating, and should be sowed early. Majoram, Savory and Thyme, are the popular flavorings for soups and stuffings, and when cut in flower and carefully dried, and then rubbed up and put into an air-tight box or bottle, may be had in greater perfection than any that can be bought at the stores. The first two are annuals: sow the seeds in drills a foot apart and thin or transplant to six inches in the rows. Thyme is a small shrubby perennial which may be raised from seed or propagated by dividing old plants. There are very few who know what an excellent flavor a pinch of Spearmint gives to soup, or it would be more generally grown. In the older parts of the country it is found naturalized in wet places, but it will do perfectly well in the garden and then we always know where to find it, as once established it will remain for years. Sage is always in demand in the family for culinary or medical uses, and can be had in the garden with but little trouble. Seeds sown this spring will give a fair cutting by autumn. It is very readily raised from cuttings of old plants. Slip off the young shoots which start this spring from near the base of the plant, and set them in sandy soil and put over them a frame covered with common muslin; they will thus be kept moist and shady and will strike root readily.—*American Agriculturist*.

DESTROY THE CATERPILLARS.

If dogs are a nuisance, if drunkenness, small pox, and kindred scourges, are fit subjects for regulation by legislatures, caterpillars certainly are! They are a plague of no ordinary character. We believe the annual loss in Massachusetts occasioned by caterpillars is fifty times as much as that caused by dogs! And yet the fathers of the commonwealth have never put a line upon the statute book in relation to them; have suggested no remedy, passed no resolution, interdicted no man from raising and scattering through the land as many legions as he pleases each coming year! Horn pouts and pickere! Shad alewives! Robins and woodcock! Crows and wild cats, what can they all do to harm or benefit mankind, compared with the wide-spread destruction caused by caterpillars!

In August, when the nests of the vermin are old and filled with their debris, thousands of the orchards of New England are objects of disgust and loathing, rather than one of the most beautiful features of our unrivalled landscapes. Tattered nests dangle from the branches of the trees, filled with the cast-off skins and exuviae of millions of worms, and, moistened by rains, are rotting in the atmosphere and shedding their foul contents upon what little fruit is permitted to grow, and poisoning the grass beneath the trees!

In assisting in gathering several hundred barrels of apples within a few years, where we had ample opportunity of noticing their quality, we do not believe that more than one barrel of them in twenty were sound. This mischief, and great loss is occasioned by our fruit-growers neglecting to destroy caterpillars, of one kind and another, as fast as their nests appear. We speak now of one kind only,—of those that have obtained such notoriety that they are almost exclusively known among us by the name of the caterpillar, and they are the worst enemies of the orchard. HARRIS says:—Where proper attention had not been paid to the destruction of them, they prevailed to such an extent as almost entirely to strip the apple and cherry trees of their foliage, by their attacks continued during the seven weeks of their life in the caterpillar form.

The trees, in those gardens where they have

been suffered to breed for a succession of years, become prematurely old, in consequence of the efforts they are obliged to make to repair, at an unseasonable time, the loss of their foliage, and are rendered unfruitful, and consequently unprofitable. But this is not all; these pernicious insects spread in every direction, from the trees of the careless and indolent to those of their more careful and industrious neighbors, whose labors are thereby greatly increased, and have to be followed up year after year, without any prospect of permanent relief.

Now is the time to destroy them. Use a pole with a brush, sponge, or rag on the end of it. Dip in a bucket of strong soap-suds, and poke it into the midst of the nest, turning it round so as to wet them all, and rub the branch about the nest. Wherever the suds touches, it will kill them.

We wish there were a law fixing a penalty upon any person upon whose premises a dozen nests could be found in the month of July, and that it was made imperative upon the selectmen or assessors of every town to see that the law was enforced! Every farmer knows that the destruction caused by caterpillars is a serious annoyance and evil to the community, and yet there are some—alas, too many—who take little or no pains to do their duty in this particular. It is a mistake to say that they have no time to destroy them. They have all the time there is for any of us, and they cannot afford to incur the cost of raising trees and then suffer them to die before their time, through the agency of caterpillars.

This thing ought to be a matter of duty and conscience. Some persons complain of the encroachments of a neighbor's dogs, or cattle, and very justly, too, perhaps, while they allow their apple or wild cherry trees to be covered with caterpillars enough to destroy half the orchards in the land! "Consistency is a jewel." We suggest to such, a story about a mote and a beam in the eye.—*New England Farmer*.

Horticultural Notes and Queries.

RAPID GROWTH OF VEGETABLES.—Rapid growth makes a mild flavor, slow growth a strong one; therefore grow vegetables quick and fruit moderately. The exceptions are only where size is valued higher than flavor.

LOOK TO YOUR CURRANT AND GOOSEBERRY BUSHES.—People who desire to save their currant bushes from destruction should attend to them carefully now, as it will be found much easier to destroy the eggs of caterpillars as soon as they are deposited on the leaves, than it will to destroy the caterpillars themselves.

THE OLD STUYVESANT PEAR TREE which stands in the city of New York, and which has borne fruit for more than 200 years, first blossomed this spring, on the day President LINCOLN died; and on the 17th of April was in full bloom. This is the earliest time of blooming that is remembered.

ORANGE ORANGE HEDGES IN NEW JERSEY.—Mr. QUINN remarked at a recent meeting of the New York Farmers' Club:—"I was never more gratified in my life than by a recent visit to the farm of Mr. BELL, in Monmouth county, N. J., in seeing his hedges of Orange Orange. He has his farm completely fenced with these hedges, from two to eight years old. All that are five years old and upward are completely impassable by man, beast or bird. I was very much surprised at their success."

NEW VARIETY OF THE MAPLE.—The Gardener's Monthly notices a new variety of Maple, which M. PEPINS concluded had been obtained by seeds from Acer eriocarpum, one of the finest of the American Maples. The young wood of this new tree is purple and glaucous, and its leaves, which are very much lacinated, are glaucous above and white and downy beneath. This variety, the writer observes, from its light and carved foliage, will not fall to be chosen for the ornamentation of parks.

GREAT CALL FOR FLOWER SEEDS!—I think the editor of the *RURAL NEW-YORKER* is good at guessing. He said (April 8,) I was trying a dangerous experiment when I offered to give away flower seeds. I have received over 1,000 orders, and have sent away over 8,000 papers of flower seeds within a month. If my floral friends will wait until I can grow seed I will send to any one who will pay the postage.—Mrs. V. P. WHITEHEAD, East Groveland, Liv. Co., N. Y.

In thus proposing to furnish a large portion of "all the world and the rest of mankind" flower seeds, without charge, Mrs. W. exhibits unusual benevolence, or (as a friend at our elbow suggestively intimates) a shrewd manner of preparing to become a popular dealer in seeds!

Domestic Economy.

ITEMS FOR HOUSEKEEPERS.

- Do every thing at the proper time.
- Keep every thing in its place.
- Always mend clothes before washing them.
- Alum or vinegar is good to set colors, red, green, or yellow.
- Sal-soda will bleach; one spoonful is enough for a kettle of clothes.
- Save your suds for the garden and plants or to harden yards when sandy.
- A hot shovel held over varnished furniture will take out white spots.
- A bit of glue, dissolved in skim milk and water, will restore old craps.
- Ribbons of any kind should be washed in cold suds, and not rinsed.
- If flat irons are rough, rub them well with fine salt, and it will make them smooth.
- If you are buying a carpet for durability, you must choose small figures.
- A bit of soap rubbed on the hinges of doors will prevent them from creaking.
- Scotch snuff put in holes where crickets run will destroy them.
- Wood ashes and common salt, wet with water, will stop the cracks of the stove and smoke from escaping.
- Green should be the prevailing color for bed hangings and window drapery.

TO MAKE HARD SOAP.

POUR four gallons of boiling water over six pounds of washing soda (sal soda) and three pounds of unslacked lime. Stir the mixture well, and let it settle until it is perfectly clear. It is better to let it stand all night, as it takes some time for the sediment to settle. When clear, strain the water, put six pounds of fat with it, and boil for two hours, stirring it most of the time. If it does not seem thin enough, put another gallon of water on the grounds, stir and drain off, and add as is wanted to the boiling mixture. Its thickness can be tried by occasionally putting a little on a plate to cool. Stir in a handful of salt just before taking it off the fire. Have a tub ready soaked, to prevent the soap from sticking, pour it in, and let it settle until solid, when you will have from the above quantity of ingredients about forty pounds of nice white soap.—*Selected*.

TO KEEP EGGS.—M. Burnouf recommends, in *Le Beller*, a French journal of agriculture, the following method of preserving eggs:—Dissolve in two-thirds of warm olive oil one-third of bees-wax, and cover each egg completely with a thin layer of this pomade with the end of the finger. The egg-shell by degrees absorbs the oil, and each of its pores becomes filled with the wax, which hermetically seals them. M. Burnouf affirms that he has eaten eggs kept two years in this manner, in a place not exposed to too great extremes of temperature. He thinks also that the germ may in this manner be preserved for a considerable time.

INDIAN MUFFINS.—One pint of Indian meal, one pint of wheat flour, four eggs, one gill of yeast, a little salt, as much warm milk as will make the whole into a thick batter. Mix the Indian and wheat flour together, stir in the milk, then the yeast, and lastly the eggs, after they have been well beaten. When the batter is light, grease the griddle and muffin rings; place the rings on the griddle; pour in the batter, but do not fill them; bake them brown on both sides and serve them hot. If for breakfast, set to rise the night previous. If for tea, about two o'clock.

TO REMOVE THE TASTE OF NEW WOOD.—A new keg, churn, bucket, or other wooden vessel, will generally communicate a disagreeable taste to anything that is put into it. To prevent this inconvenience, first scald the vessel well with boiling water, letting the water remain in it till cold. Then dissolve some pearlash or soda in lukewarm water, adding a little bit of lime to it, and wash the inside of the vessel well with this solution. Afterwards scald it well with plain hot water, and rinse it with cold before you use it.

WAFFLES.—Four eggs, one pint of milk, two ounces of butter, one pound of flour, four table-spoonfuls of yeast, a salt-spoonful of salt. Beat the eggs to a froth. Put the butter in the milk and warm it until the butter dissolves. When the milk is cooled sufficiently, put in the eggs, and stir in the flour, after which add the yeast and salt. When light, pour the batter in the waffle iron, having first greased it well. Bake them on both sides by turning the iron. To be well buttered and served hot.

SUBSTITUTE FOR BUTTER.—The Baltimore Clipper says:—"A lady who is a famous house-keeper, recommends an economical plan for making cakes without butter, which may be of use to our lady readers. Take a piece of fat pork, melt it down and strain it through a piece of coarse, thin muslin. Set it aside until cold. It is then white and firm, and then may be used like butter in any kind of cake. In pound cake, she assures us it is delicious. She says, after one trial she never used butter."

FLANNEL CAKES.—One pint of fine Indian meal, one pint of wheat flour, one teaspoonful of salt, two gills of yeast. Mix the wheat and Indian meal together, with as much tepid water as will make it into a batter, not quite as thin as for buckwheat cakes; then add the salt and yeast, and set them in a moderately warm place to rise. When light, bake them on a griddle; butter and send to table hot.

