

Many Silos Are On Our Farms, Many More Are Needed

Vetch and Oats For Silo Crop Taking Place of Corn In the Valley Districts

Corn, However, Is Sometimes More Desirable, Because It Is a Cultivated Crop; Actual Figures From 3 Years Experiments

The following valuable information is furnished by John C. Burtner of the department of industrial journalism of the Oregon State Agricultural college:

Vetch and oats are rapidly replacing corn as a silage crop in the northwest, particularly in the Willamette valley. The change is due largely to the economy of production of vetch and oats combined with a feed value as good or better than corn silage. Corn, however, is sometimes more desirable in spite of this, because it is a cultivated crop.

The average cost per ton of corn silage is \$7.40, while the average for vetch and oats silage is but \$4.27 a ton—a saving of \$3.13 on each ton of feed—according to a survey made by the Oregon experiment station.

Data for this study, which was carried on over a three year period, was obtained by personal interviews each year with a total of growers, who cooperated with the station. From each grower was obtained a record of the cash expenses incurred in producing his crops, and careful estimates of the amounts of labor used and of the various overhead expenses. All items of cost were included, not only items paid for in cash by the grower, such as wages of hired help, machinery repairs, and taxes, but also non-cash items, such as the value of the grower's own labor, depreciation of his machinery, and interest upon his investment.

The figures, of course, are averages for a large number of farms, and costs for individual farms under varying conditions will vary both above and below these averages.

Actual Results Shown

The 2130 acres of corn grown for silage in this experiment yielded an average of 5.7 tons per acre, at an average cost of \$7.40 per ton, while 167 acres of vetch and oats yielded 7.9 tons per acre, costing \$4.27 per ton.

Kale silage, it was found, while grown at a lower cost per ton, due to heavy yield, was almost as desirable because of its lower feed value.

While vetch and oats are especially adaptable for summer silage use, the combination also makes good silage for winter feed. It is harvested at the hay stage, at which time the vetch has almost full size seeds in the lower pods, and the oat kernels are in the medium hard dough stage. Both vetch and oat plants are usually green and fresh throughout this time of maturity and ensilage is practically at the maximum.

Vetch and oats are put into the silo as soon after cutting as possible. Leaving the cut material in the field for several days before using causes loss in weight and feed value, and the silage will not keep as well.

Putting Into Silo

It is necessary that the cutter be equipped with sharp knives and ample power to elevate the cut material into the silo. Fresh vetch and oats is heavy, and lack of good equipment and power will result in trouble and added expense. Silage made from fresh vetch and oats ordinarily does not require the addition of water at the time of putting it into the silo. If the material is quite dry, however, the addition of approximately enough water to bring the moisture content back to about that of fresh cut material is desirable, says H. A. Schloth, assistant agronomist with the experiment station. An excess of water will usually drain off or seep out, causing the loss of considerable food value.

Vetch and oats silage requires careful tramping or packing to exclude as much air as possible, so that uniform fermentation will take place, preventing the silage from becoming moldy or stinky. Even distribution of the cut material in the silo is also important, so that with proper tramping the silage will settle evenly, and air pockets will not be formed, around which the silage may spoil.

Silage made of vetch and oats heats rapidly and remains quite warm for about two weeks after the silo is filled. It is claimed by many feeders that use of this silage while warm causes intestinal disorders in cattle.

Growing Crop

Common or Hungarian vetch and oats are most generally used for silage. They make a high quality silage, yield well and grow under almost any ordinary farming conditions found in western Oregon or Washington. The better the land and growing conditions,

Sparrows Are Great Boon to U. S. Farmers

It has been authoritatively estimated that the native sparrows are worth about \$75,000,000 annually to American farmers in destroying undesirable weed seeds. Many other birds thrive on insects which harm crops, flowers and plants says Albert A. Hansen writing in the April issue of "Successful Farming". He points out that a little consideration shows the better sort of birds will provide a busy lot of garden weeder for the home grounds.

"First," he writes, "build suitable homes and watering places for them. Second, destroy or drive away the rowdy little English sparrows or they will oust your bluebirds, wrens, and other desirable tenants. Third, feed the birds during the winter when the ground and weeds are so covered by snow that the birds cannot get at the seeds.

"A study of the eating habits of birds points to the native sparrows, meadow larks, grosbeaks, shore larks, orioles, flickers, bluebirds, thrashers, cardinals, tanagers, wood thrush, robins, chickadees and ruby throats as friendly species while the English sparrows, crows and cowbirds are undesirable with which decent birds cannot live."

Any residential street, being a series of homes, each having its lawn in front, gives to the city's appearance a definite influence, good, bad or indifferent, according to the character of the development or lack of it. It can be truly said that it is the street trees, attractive homes and well-landscaped lawns that give streets of character their distinction and give cities the name of beautiful.

Let us think of a garden as an attractive outdoor room, rather than a place of orderly beds where flowers or other plants are grown. No matter what type of design or what type of furnishings—if one may speak of the elements of a garden as furnishings—a garden usually does not offer its full complement of enjoyment without that desirable feeling of intimacy and privacy.

Table 2—Average Cost Per Acre of Corn Silage, Vetch Silage, and Kale

| Item | Number acres | Silage | Vetch | Kale |
|--|--------------|---------|---------|------|
| Number acres | 200 | 39 | 66 | |
| Number tons | 12367 | 1270 | 3662 | |
| Direct Man | \$13.45 | \$8.42 | \$31.42 | |
| Overhead Man | | | | |
| Labor | 3.82 | 2.37 | 6.07 | |
| Horse Labor | 6.01 | 3.18 | 13.34 | |
| Tractor | 3.59 | 3.18 | 2.36 | |
| Other | | | | |
| Machinery | 3.21 | 2.11 | 2.15 | |
| Automobile | .14 | .06 | .03 | |
| Seed | .84 | 3.05 | .47 | |
| Fertilizer | 5.1 | .17 | 2.60 | |
| Prime | .26 | .08 | .08 | |
| Taxes | 2.10 | 2.08 | 2.22 | |
| Interest on | | | | |
| Land Value | 6.94 | 7.21 | 7.55 | |
| Use of Silo | 2.33 | 2.37 | ... | |
| Irrigation | | | .48 | |
| Water | | | .48 | |
| Totals | 43.00 | 34.28 | 68.69 | |
| Credit for pasture, car, corn, kale plants | .77 | .51 | .21 | |
| Net cost | | | | |
| per acre | \$42.23 | \$33.77 | \$68.48 | |
| Tons per A. | 5.7 | 7.9 | 18.1 | |
| Cost per ton | \$7.40 | \$4.27 | \$3.78 | |

*Including kale plants purchased.

Dates of Slogans in Oregon Statesman

(With a few possible changes)

Loganberries, October 7, 1928.
 Prunes, October 14.
 Dairying, October 21.
 Flax, October 28.
 Filberts, November 4.
 Walnuts, November 11.
 Strawberries, November 18.
 Apples, Figs, etc., Nov. 25.
 Raspberries, December 2.
 Mint, December 9.
 Beans, etc., December 16.
 Blackberries, December 23.
 Cherries, December 30.
 Pears, January 6, 1929.
 Gooseberries, January 13.
 Corn, January 20.
 Celery, January 27.
 Spinach, etc., February 3.
 Onions, etc., February 10.
 Potatoes, etc., February 17.
 Bees, February 24.
 Poultry and Pet-Stock, Mar. 3.
 City Beautiful, etc., March 10.
 Great Cows, March 17.
 Paved Highways, March 24.
 Head Lettuce, March 31.
 Silos, etc., April 7.
 Legumes, April 14.
 Asparagus, etc., April 21.

Everything In BUILDING MATERIALS

Cobbs & Mitchell
 A. B. Kelsay, Manager
 840 S. 12th St. Phone 315

Gideon Stolz Company

Manufacturers of
 Vinegar, Soda Water,
 Fountain Supplies
 Salem Phone 26 Ore.

Oregon Pulp and Paper Company

—Manufacturers of—
 BOND — LEDGER — GLASSINE
 GREASEPROOF — TISSUE
 Support Oregon Products
 Specify "Salem Made" Paper for Your Office Stationery

Dates of Slogans in Oregon Statesman

Grapes, etc., April 28.
 Drug Garden, May 5.
 Sugar Industry, May 12.
 Water Power, May 19.
 Irrigation, May 26.
 Mining, June 2.
 Land, Irrigation, etc., June 9.
 Floriculture, June 16.
 Hops, Cabbage, etc., June 23.
 Wholesaling, Jobbing, June 30.
 Cucumbers, etc., July 7.
 Hogs, July 14.
 Goats, July 21.
 Schools, July 28.
 Sheep, August 4.
 Seeds, August 11.
 National Advertising, Aug. 18.
 Livestock, August 25.
 Grain & Grain Products, Sept. 1.
 Manufacturing, Sept. 8.
 Woodworking, etc., Sept. 15.
 Automotive Industries, Sept. 22.
 Paper Mills, Sept. 29.
 (Back copies of the Sunday edition of The Daily Oregon Statesman are on hand. They are for sale at 10 cents each, mailed to any address. Current topics, 5 cents.)

HOLLOW TILE SILO IS IN FAVOR HERE

Some of the Most Successful Dairymen in Salem District Put Them Up

The hollow tile silo is coming into favor in the Salem district, as well as those built of concrete; though a large proportion of those built in the past were of wood, of the various manufacturers, at home and in other sections.

The Mount Angel college people have recently had erected two large hollow tile silos. Forehanded farmers in other sections of Marion and Polk counties, and throughout the valley, have been putting up silos of hollow tile.

Arguments For These

The Salem Brick & Tile company has in one of its booklets some arguments under an appropriate heading in favor of the use of hollow tile for silo building. The writer copies some of them, as follows:

"Hollow tile as a silo material permits of the construction of an ideal silo. The sweet state of the silage kept in a hollow tile silo, the freedom from freezing due to the cellular construction, the ease of erection, and the permanence guaranteed by this material, make it the most satisfactory for such a type of building.

"The stock or dairyman without a silo, in these days of modernization in things about the ranch as well as in the homes of the city rich, is in the position of a bank without a vault, a vessel without a ball or a wagon without a box. And he likewise like minus a savings account in the bank.

"It is now thoroughly recognized that the silo is the dairyman's vault in which may be deposited the treasures of the field. It is the silo which propels the ship of profit, and it is the savings bank for the accumulation of the gold of the meadows. Those who employ them in their dairying operations are known by their signs of prosperity, visible in their well fed cows and the figures on "Any silo we know of, except the pages of their bank books.

"The hollow tile kind, is a constant expense, repair costs pile up on you in season and out of season, and instead of paying for these as it should your silo has literally eaten its head off. Burned clay, if thoroughly burned, is more durable than even the best of stone, as is shown by the brick and stone work of buildings centuries old and dating back before the Christian era. Besides, the hollow tile silo has the advantage of dead air space which is the best resisting medium to freezing and transmission of heat of anything known.

"A silo of hollow tile requires practically no repairs and what few there are will be on the doors, which require occasional renewal; as in all other types of silos, there is no shrinking, warping, cracking or driving out; no use for paint aside from the roof and doors, no decay, no attention needed to keep an empty silo from being wrecked by a wind storm as are so many of the wooden kind. It is a fact that two inches of dead air space is a better non-conductor of heat than two inches of dry fir. The wooden staves of filled, which lowers its non-conducting properties, while in the hollow tile silo there are three and one-half inches of dead air space besides the two walls of the tile so keep the cold out. The hollow tile silo will resist the cold much better and hold the heat for curing.

"The cost of the hollow tile silo is no greater than that of the better grades of wooden silos, which are not expected to last more than 10 to 12 years, and from 20 to 50 per cent less than concrete and far superior to either.

Swab First Speaker

In addition to Mr. Schwab, who will discuss "Safety as a Factor in Industry," the following speakers are announced:

Hon. Robert P. Lamont, secretary of commerce; "Safety as a National Problem."

Hon. James J. Davis, secretary of labor; "Safety and the Worker."

Mrs. Schumann-Heink; "Safety in the Home."

Dr. Miller McClintock, Director Albert Russell Erskine, bureau of street traffic research, Harvard university; "Making Our Highways Safe."

Grover Whalen, commissioner of police, New York; "Enforcement as an Aid to Safety."

Joseph E. Sheedy, executive vice president United States lines; "Safety on the High Seas."

Talks Last 15 Minutes

President Henry A. Reninger of the National Safety Council will outline the series and introduce Mr. Schwab on Saturday evening, April 20, at 7:00 p. m. The other 12 talks to be given on successive Saturday evenings will go on the air at 7:15 and will be of 15 minutes' duration. All talks will be given on eastern standard time schedules.

Make Haste For Time Is Flitting Past Is Advice

Make haste, for there are busy days ahead. The sun is shining a little longer each day. Almost before you know it you will find yourself busy putting your garden in shape.

The lure of the outdoors will claim you completely and, as you work the soft soil, delighting in the smell and feel of the newly turned earth, you will find little time for planning. Do your planning at once. Decide what you want to do with your garden and grounds this year and then, when it comes time to don your work clothes, you will have the satisfaction of knowing that every effort brings you closer to completion of a carefully thought out garden.

Planning makes the successful garden as truly as planning makes for the successfully built house.

H.A. Hyde Co. DEALERS IN

Berry Plants, Seed Potatoes
 Berry Crates and Hallocks
 Portland Road, Salem, Oregon

Oakland Pontiac

Sales and Service
 VICK BROS.
 High Street at Trade

BRING IN YOUR NEW WHEAT

And exchange it for hard wheat patent flour, or any of our long list of milling specialties. We do custom grinding. We supply what you need for what you have.

CHERRY CITY MILLING CO.
 Salem, Oregon
 481 Trade St. Phone 318

Let Us Supply Your FUEL

Wood Delivered in the quantity you want and sawed to the length you desire.

CASTLE GATE COAL
 A fine grade coal delivered in the quantity wanted.

In bulk—any quantity delivered in your tank.

Call 930 and let us serve you

Larmer Transfer & Storage
 SALEM, OREGON

Wood Coal Fuel Oil

Call 930 and let us serve you

Larmer Transfer & Storage
 SALEM, OREGON

The Silo For Stability

The greatest dairying section of the United States, in Wisconsin, has the largest number of silos in comparison to the number of farms. Marion and Polk counties lead in Oregon in pure bred high record cows and in most dairying lines, and the use of the silo in the Salem district is the most general in this state.

But there are thousands of farms in this valley that should have some silos where none are yet provided. Some one has said that "the silo saves the crop and it saves the soil and makes spring last the whole year for live stock; provides a green pasture under cover; pays for itself every year." Also, that "the silo takes the element of luck out of dairying and live stock breeding," and that "the silo is a watch tower of prosperity."

The silo saves the crop that would otherwise be lost, in many times of unfavorable harvesting weather. Silage is better in some respects than natural pasture, for it allows the making up and feeding of a balanced ration.

Stability, safety—these are the goals of progressive men. The silo conserves these values. (The silo is the cheapest equipment on the farm; for it saves its cost every year. You pay for a silo whether you have it or not; in profit if you have it—in loss if you have it not.)

More and more silos are needed in the Salem district.

Campaign for Safety Will Go on Nationally; 13 Men Of Note Booked to Speak

CHICAGO, April 7—"Universal Safety" will soon be carried directly into millions of American homes, through a series of 13 weekly radio addresses by national leaders the first of whom will be Charles M. Schwab, on Saturday evening, April 20, at 7:00 p. m.

Alarmed by the accident fatality toll which claims nearly 100,000 lives each year in the United States, the National Broadcasting company, in cooperation with the National Safety Council will present this "Universal Safety Series" in an effort to awaken the American people from an attitude of seeming indifference toward a national problem of vital importance.

Make Haste For Time Is Flitting Past Is Advice

Make haste, for there are busy days ahead. The sun is shining a little longer each day. Almost before you know it you will find yourself busy putting your garden in shape.

The lure of the outdoors will claim you completely and, as you work the soft soil, delighting in the smell and feel of the newly turned earth, you will find little time for planning. Do your planning at once. Decide what you want to do with your garden and grounds this year and then, when it comes time to don your work clothes, you will have the satisfaction of knowing that every effort brings you closer to completion of a carefully thought out garden.

Planning makes the successful garden as truly as planning makes for the successfully built house.

H.A. Hyde Co. DEALERS IN

Berry Plants, Seed Potatoes
 Berry Crates and Hallocks
 Portland Road, Salem, Oregon

Oakland Pontiac

Sales and Service
 VICK BROS.
 High Street at Trade

BRING IN YOUR NEW WHEAT

And exchange it for hard wheat patent flour, or any of our long list of milling specialties. We do custom grinding. We supply what you need for what you have.

CHERRY CITY MILLING CO.
 Salem, Oregon
 481 Trade St. Phone 318

Let Us Supply Your FUEL

Wood Delivered in the quantity you want and sawed to the length you desire.

CASTLE GATE COAL
 A fine grade coal delivered in the quantity wanted.

In bulk—any quantity delivered in your tank.

Call 930 and let us serve you

Larmer Transfer & Storage
 SALEM, OREGON

Wood Coal Fuel Oil

Call 930 and let us serve you

Larmer Transfer & Storage
 SALEM, OREGON

Larmer Transfer & Storage
 SALEM, OREGON

FILLING THE SILO MADE REGULAR JOB

The Wisconsin Plan Requires Small Machinery and Cuts Out Neighbor Help

The hard work connected with filling the silo is often given as an excuse for not building one, and so the economic value of this system of conserving farm wastes and providing essential feeds is lost.

A college authority, Prof. A. L. Haecker at O. A. C., suggests that in order to obtain light on this question we should call into view the methods of the farmers of the section where silos are most numerous, in south central Wisconsin. In that section there are a number of counties where the great bulk of the corn crop is put into the silo; where practically every farmer who has livestock has one or more silos, and where the job of filling the silos is considered of little consequence; is regarded as a regular part of the farm work, and the help of neighbors is not asked in carrying on the operation.

Small Outfits Used

The "Wisconsin plan" of filling is now recognized the country over as using a small outfit rather than a large one, and by using principally the power and labor of the farm rather than making a big exchange-labor event like threshing. Silo filling by this method is no more irksome than having or harvesting, or in fact any other work about the farm. The crop is put in by each farmer when it has reached the proper stage of maturity. This means better silage, and lower cost of filling. By filling silos on the "Wisconsin plan" no one is needed inside the silo to tramp, but the tramping is done at the finish when the top surface needs sealing by a few trappings.

The Best Practices

Many farms are now equipped with electricity, and with a five horse power motor and a thirteen or fourteen inch cutter. Experiment stations have proven that silos can be filled quickly and easily. Tests made in Minnesota, Kansas, Idaho, Indiana, and Wisconsin and other states, show that five horse power motors are able to cut from five to eight tons per hour and deliver into a thirty or

Make Haste For Time Is Flitting Past Is Advice

Make haste, for there are busy days ahead. The sun is shining a little longer each day. Almost before you know it you will find yourself busy putting your garden in shape.

The lure of the outdoors will claim you completely and, as you work the soft soil, delighting in the smell and feel of the newly turned earth, you will find little time for planning. Do your planning at once. Decide what you want to do with your garden and grounds this year and then, when it comes time to don your work clothes, you will have the satisfaction of knowing that every effort brings you closer to completion of a carefully thought out garden.

Planning makes the successful garden as truly as planning makes for the successfully built house.

H.A. Hyde Co. DEALERS IN

Berry Plants, Seed Potatoes
 Berry Crates and Hallocks
 Portland Road, Salem, Oregon

Oakland Pontiac

Sales and Service
 VICK BROS.
 High Street at Trade

BRING IN YOUR NEW WHEAT

And exchange it for hard wheat patent flour, or any of our long list of milling specialties. We do custom grinding. We supply what you need for what you have.

CHERRY CITY MILLING CO.
 Salem, Oregon
 481 Trade St. Phone 318

Let Us Supply Your FUEL

Wood Delivered in the quantity you want and sawed to the length you desire.

CASTLE GATE COAL
 A fine grade coal delivered in the quantity wanted.

In bulk—any quantity delivered in your tank.

Call 930 and let us serve you

Larmer Transfer & Storage
 SALEM, OREGON

Wood Coal Fuel Oil

Call 930 and let us serve you

Larmer Transfer & Storage
 SALEM, OREGON

Larmer Transfer & Storage
 SALEM, OREGON

Larmer Transfer & Storage
 SALEM, OREGON

BULB GROWING ONE PROSPERING FIELD

Growers at Woodburn Pioneer Growing on a Large Scale

One of Woodburn's infant industries, that of commercial bulb growing, has almost doubled itself in its second year. H. F. Butterfield and George A. Landon are the pioneers in the field having begun the growing of bulbs on a large scale last year.

Twenty-one varieties of narcissi, 33 of tulips, and 10 of lilies are grown on the Butterfield farm on the Pacific highway south of Woodburn. From 2000 to 3000 blooms and as many bulbs are shipped out each week from the patch, which covers a little over two acres. A portion of the field in which imported bulbs are grown is still under government quarantine.

The entire acreage of George Landon is under quarantine which will be raised next year, when Mr. Landon expects to increase his field considerably.

Most of the bulbs and blooms are shipped to florists in Montana.

Make Haste For Time Is Flitting Past Is Advice

Make haste, for there are busy days ahead. The sun is shining a little longer each day. Almost before you know it you will find yourself busy putting your garden in shape.

The lure of the outdoors will claim you completely and, as you work the soft soil, delighting in the smell and feel of the newly turned earth, you will find little time for planning. Do your planning at once. Decide what you want to do with your garden and grounds this year and then, when it comes time to don your work clothes, you will have the satisfaction of knowing that every effort brings you closer to completion of a carefully thought out garden.

Planning makes the successful garden as truly as planning makes for the successfully built house.

H.A. Hyde Co. DEALERS IN

Berry Plants, Seed Potatoes
 Berry Crates and Hallocks
 Portland Road, Salem, Oregon

Oakland Pontiac

Sales and Service
 VICK BROS.
 High Street at Trade

BRING IN YOUR NEW WHEAT

And exchange it for hard wheat patent flour, or any of our long list of milling specialties. We do custom grinding. We supply what you need for what you have.

CHERRY CITY MILLING CO.
 Salem, Oregon
 481 Trade St. Phone 318

Let Us Supply Your FUEL

Wood Delivered in the quantity you want and sawed to the length you desire.

CASTLE GATE COAL
 A fine grade coal delivered in the quantity wanted.

In bulk—any quantity delivered in your tank.

Call 930 and let us serve you

Larmer Transfer & Storage
 SALEM, OREGON

Wood Coal Fuel Oil

Call 930 and let us serve you

Larmer Transfer & Storage
 SALEM, OREGON

Larmer Transfer & Storage
 SALEM, OREGON

Larmer Transfer & Storage
 SALEM, OREGON

Larmer Transfer & Storage
 SALEM, OREGON