County's timber is an

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First Silo Is Being Installed In Harney Valley

The first silo to be erected in Harney Valley has been received and is installed at the farm of Ralph Penbody on Polson crock a short disof Hurns. This is an event in the history of the stock industry county and because of the wide use made of the silo in these days rimes-Herald deemed it of sufficient importance to devote considerable this issue to this improvement. The articles on this and other ages dealing with silage and the silo are all furnished by the west Coast umberment's Association, except those otherwise signed or credited. tockmen should read all these stories and consider the advantages of this modern method of feeding not only stock cattle, but beef and dairy cattle, steep and hogs.

IF YOUR COWS COULD TALK-

they would demand a silo. Not only because they relish the rich, succulent silage, but because it increases their usefulness to you.

A silo enables a cow to produce more milk without dditional expense. It brings more money to the farm ithout additional investment. It saves tons of nourishng stock food that otherwise would go to waste. It turns his stock food into food for human consumption, every found of which is needed this year.

The sile is the original instrument of food conservam. It is easy to buy. It is easy to build. It lasts a life-

DOES SILAGE PAY? THESE FIGURES SHOW THAT IT DOES

Recently the experiment station of the New Mexico College of Agriculture conducted a series of tests to determine the feed value of silage in dollars

Two evenly balanced lots of cows were selected—four head in each lot. One lot was fed 15 pounds of alfalfa per head daily and 30 pounds of silage. The other lot was fed all the alfalfa hay they would clean up. Each lot was fed grain alike—one pound for each five pounds of milk produced. The experiment consisted of two feeding periods of 47 days each, with g sevenday intervals.

The following figures are the result

The same of the sa		
	ows fed	Cown fe
	with	withou
	silage	silag
	\$ 69.72	\$ 88.87
Value of milk produced		119.34
Cost of milk per cwt		1.17
Cost of butter per pound	.196	.25

Further conclusive proof of the value of a silo is provided by the result a high food value per cubic foot. soil and climate, responding to rich ly over 13 tons per acre. The farmsile publications of the International Harvester Company. In this ex- ing is low. Little labor is required corn plant. It has been extensively all enthusiastic regarding its value. sent twelve herds of 216 cows were fed with silage and 16 herds of in storing or feeding.

see come were not River with stres.	e. The results were:	
	216 cows	239 cows
	fed on	not fed
	silage	silage
Peands of milk produced	1,232,674	919,920
Pounds of butter fat	47,506	38,503
Value of butter fat	\$14,023.52.	\$11.056.23
Cost of feed	6,885.93	5,564.28
Net profit	7,137.59	5,491.95
The average per cow:	Silage fed	No allage
Pounds of milk produced	5.706	3,850
Pounds of butter fat	220	161
Value of butter fat	564.92	846.26
Cost of feed	31.90	23.28
Net profit	33.02	22.98
While the difference in the cost	of feed for the sliage-fed	

others was \$8.62 per head the value of the batter fat produced by the silage fed cows was \$18.66 per head more—a difference per cow in favor of the

A similar experiment at the same station the second year resulted in a ference of \$11.01 in favor of the silage-fed cow.

Asyone with a pencil and piece of paper can figure out how long it will a silo at this rate to pay for itself.

WHY A SILO

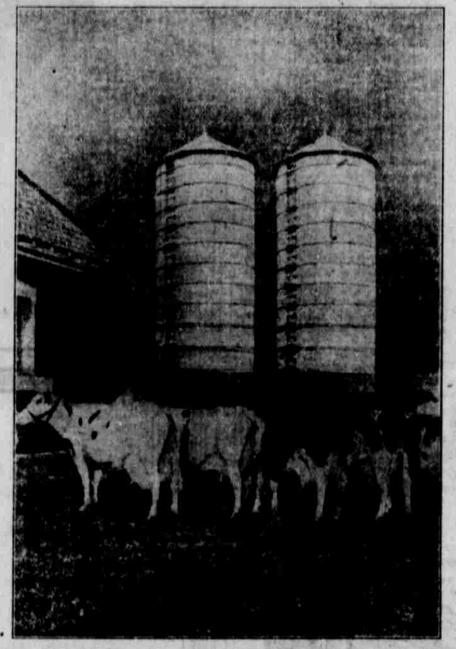
modern stock farm. It absorbs tion, promotes health. excess crop and keeps it in succue or scarce, being

point of production.

The silo furnishes succulent feed

Silage, which is the name describt, nutritious, and palatable form ing the contents of the silo, is relishainst the time when feed is expen- ed by all farm adimals and next to green, fresh pasture, is the most nu-The sile is to the farmer the samb tritous roughage that can be offered the glass fruft far is to the farm- to livestock-especially to dairy

herds and fattening cattle. With a silo it is possible to have The silo supplements the pasture thus Annus) is a native of North Am- Bulletin No. 131, Montana Experi- extract, a nutritive ratio of 15.1 car- ed impossible to get them all "rounde equivalent of good pasture or for the dry, summer months, avoids erica and has grown in nearly every ment Station, gives the following: d green feed every day of the year check in the growth of beef animals garden in the country, it is only in and thus keep the animals in con- and prevents failure of milk flow in recent years that it has been recogant good health and at their high- dairy cows when pasture dries up. The silo provides one of the cheap- record of sunflower cultivation is



Group of silage-fed cows from farm of E. A. Stuart, president Carnation Milk Products Company.

5 original cost is low. Its contents have It adapts itself to a wide range of The average for the 200 being slight-

be put away regardless of weather have grown sunflowers for fuel. | both in growing and feeding sun-

material, pass it through the cutter flower oil has been produced in com- of Bend has volunteered to finance were asked to return when that was into the silo than it is to cut the mercial quantities in that country for any farmer who wanted to build a exhausted for another helping or for same material green from day to day the last hundred years. They have silo. They have also secured several and feed it whole to the stock.

cent of the food value in a corn crop leties that have proven most popu- price. is contained in the grain and edible lar and seems best adapted to this. In Klamath County a number of of people and give the committee of wastes the remaining 40 per cent.

A silo on a dairy farm saves 50 to otherwise required.

for the winter months. Succulence be without a sile in these days when that in 1917 they began some defi-The sile is the balance wheel of stimulates the appetite, side diges wood is easily obtained and the banks tittely planned work to test the reinfarmers who show enterprise enough in different ways. to install them.

SUNFLOWERS FOR SILAGE

(By C. L. Smith Agriculturist) Although the sunflower (Helian- of 44.1 tons per acre. nized as a forage plant. The earliest

est methods of storing food. The found in Spain, about 350 years ago. per acre, the lowest, 10 tons per acre.

estible matter in cur- soil and cultivation much like the ers who fed silage the past winter are cultivated for its seeds, which are The Wallowa County Farm Bureau The silo often saves a crop other- very rich in oil. In this country the has adopted the slogan, "One thouwise damaged or entirely lost. Rains seed has been extensively used for sand siles on one thousand farms." arrived. The "eats" provided were may prevent curing early cuttings of poultry food. Owing to the abun- It has been estimated that the feed- absolutely the best it has been the clover, alfalfe, peas, oats or grasses; dance of oil in the seeds and the ing value of silage the past winter good fortune of the writer to have early frosts may catch the corn. All woody character of the mature stock averaged \$1,000 per stlo. can be saved by the silo. They can many farmers in the middle west. In Deschutes County the results

When the harvesting of silage is oily foods in Russia, more attention that the Farm Bureau has inaugerwell organized and efficiently handl- has been given to improvement of ated a strenuous and enthusiastic silo ed it is as cheap or cheaper to cut the varieties there than elsewhere. Sun-campaign. The First National Bank (produced a number of varities some- ions of choice sunflower seed, which every description, ple, cookies and ice It is estimated that only 60 per what different in character. The var- is furnished to farmers at wholesale cream. It took over two hours to Mammeth Russian.

growing of Bunflowers under irriga- livestock. There is no need for any farmer to tion. The results were so promising are ready to assist in financing those tive returns from sunflowers planted

> The highest yield they secured from planting in rows 36 inches apart dropping the seeds 4 to 5 inches apart in the rows, using only five pounds to the acre. This gave yield

ience in growing sunflowers, it has been found that the most practical way of planting the seed is with the ordinary grain drill. A sufficient number of seed outlets should be stoped up to permit of planting only Many People Gather at Hosin rows 30 to 36 inches apart. The drill should be regulated so that the seeds will be droped 4 to 5 inches apart in rows. The set for this will vary with the different drills, but with a standard Van Brunt the desired distribution may be secured when the drill is set to plant four pecks of wheat to the acre. Planting in this way, rows 36 inches apart and seeds 4 to 5 inches apart in the row, will require five pounds of seed to the acre on the average. The largest yields were produced from the earllest plantings."

In Oregon and Washington some the average yields per acre were the parties to talk. That settled it. greater than any other crop.

Feeding Value

dicate that ton for ton the sunflower was changed later by the invitation corn sllage.

In Wallowa county where the average conditions are unfavorable for corn, about 200 acres of sunflowers were grown for silage in 1919. The largest yield reported was 40 tons

Owing to habitual use of oils and flowers have been so satisfactory

portions of the stalk. The farmer country is a large, coarse growing farmers have experimented with the ladies who looked after the serving who is without a silo deliberately sert with stripped seeds known as the wild sunflower which grows luxur- a chance to get something to eat iently on dry lands. They find that themselves. During the entire time In 1915 the Montana Experiment cut at the proper stage, it is relish- there was a continual stream of good 75 per cent of the amount of hay Station tried out in a small way the ed and eaten greedily by all kinds of talk and good natured raillery among

> pounds of sunflower silage is 21.4 to- music in the house where a piano was tal dry matter; 1.24 crude protien; at their disposal and later they play-10 13 crude fiber, and nitrogen free ed on the beautiful lawn where the 1 per cent of protien.

Corn silage has 26.3 dry matter; ing the affair. 1.1 crude protten; 15.00 crude fiber A picture was secured of a large and free nitrogen extract; 0.7 ether number of those present but it seem-

(Continued on page flive)

"In the light of four years' exper- PICNIC AT VARIEN'S **ENJOYABLE AFFAIR**

pitable Home on Sunday; Fine Dinner Served.

The beautiful farm home of Mr. and Mrs. Dan Varien on Prather creek was the scene of a very successful and enjoyable picnic on last Sunday. There were between 150 and 200 people there for dinner and while some left for Burns early in tht afternoon to attend the baseball game, others arrived later.

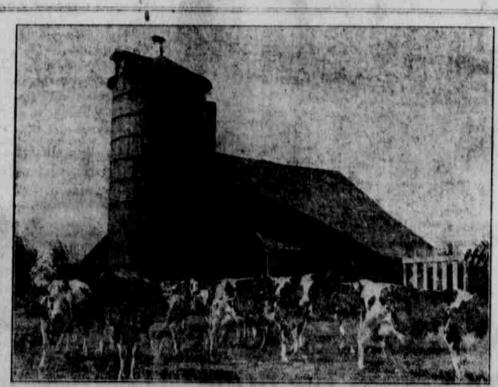
There was no formal program to sunflowers were grown in an exper- spoil the day for the neighbors who mental way in 1918. The results gathered to spend the day in social were such as to stimulate interest talk and fun. There was an attempt and in 1919 a considerable acreage at one time to spoil the afternoon by was planted for silage purposes. The a talk from the county agent and the yields were in a general way very sat- newspaper man, but that catastroisfactory, varying from 10 tons per phe was averted by Mrs. McDaniels acre under dry land conditions to threatening to start all the Ford cars 50 tons per acre. In the higher at- to going in low gear if any further titudes, under dry farming conditions attempt was made to get either of

The Variens had expected to have as their guests the Sage Brush Em-Whenever comparisons have been broidery Club with their husbands made with corn silage, the results in- and a few invited friends, but this silage has a feeding value equal to being extended to the citizens of Burns and the surrounding country. Everybody who came provided something toward the picnic Ginner and this proved the real feature of the day-so far as the newspaper man was concerned. It was just like in the days of childhood when a party meent "just eats", for without ice for a child. The table capacity was not sufficient to take care of the food provided and had to be extended twice before the lunch time a chance at for ever so long. There was everything that could be obtained and plenty of it. Because of the sary to serve cafeteria style and the plates were filled first with chicken, andwiches, pickles, olives, salad, and other good things and then the guests take care of the waiting hungry line the neighbors gathered.

The digestible nutrients in 100 The young people enjoyed some extract, 0.37 ether extract with a nu- dining took place. There were tritive ratio of 8.9 carbohydrate to groups of people all over the place having a good visit and really enjoy-

(Continued on page four)





Cows waiting for their silage.