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SUNFLOWERS FOR SILACE (By C. L. Smith Agriculturist.)

Although the sunflower (Helian thus Annus) is a native of North America and has grown in nearly every garden in the country, it is only in recent years that it has been recogpixed as a forage plant. The earliest record of sunflower cultivation is found in Spain, about 350 years ago. It adapts itself to a wide range

soil and climate, responding to rich soil and cultivation much like the corn plant. It has been extensively cultivated for its seeds, which are very rich in oil. In this country the seed has been extensively used for poultry food. Owing to the abun-dance of oil in the seeds and the woody character of the mature stock many farmers in the middle west have grown sunflowers for fuel.

Owing to habitual use of oils and elly foods in Russia, more attention

has been given to improvement of varieties there than elsewhere. Sunflower oil has been produced in commercial quantities in that country for the last hundred years. They have produced a number of varieties somewhat different in character. The varieties that have proven most popu-lar and seems best adapted to this country is a large, coarse growing sort with striped seeds, known as the Mammoth Russian. In 1915 the Montana Experiment

Station tried out in a small way the growing of Sunflowers under irrigation. The results were so promising that in 1917 they began some definitely planned work to test the rela-tive returns from sunflowers planted in different ways. The highest yield they secured

The highest yield they secured from planting in rows 36 inches apart dropping the seeds 4 to 5 inches a-part in the rows, using only five pou-nds to the acre. This gave yield of 44.1 forms per acre. Builetin No. 131, Montana Experi-ment Clatton fives the discrimination

"In the light of four years' exper-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 in rows 30 to 36 inches apart. The drill should be regulated so that the seeds will be dropped 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 wheet to the acre. Planting in this way, rows 36 inches apart and seeds t to 5 inches apart in the row, will require five pounds of seed to the acre on the average. The largest rields were produced from the earlplantings

In Oregon and Washington some In Oregon and washington some sunflowers were grown in an exper-imental way in 1918. The results were such as to stimulate interest end in 1919 a considerable acreage was planted for silage purposes. The yields were in a general way very satpletos were in a general way very sat-isfactory, varying from 10 tons per aure under dry land conditions to 50 tons per acre. In the higher al-titudes, under dry farming conditions the average yields per acre were geater than any other crop.

Feeding Value

Whenever comparisons have been made with corn silage, the results indicate that ton for ton the sunflower silage has a feeding value equal to corn silage.

In Wallowa county where the average conditions are unfavorable for grain ration. For a cow giving over 20 pounds were grown for silage in 1919. The largest yield reported was 40 tons per arcs, the lowest, 10 tons per arcs. The average for the 200 being slight-to average for the 200 being slight-to average for the 200 being slight-to average for the 200 being slightwho fed silage the past winter are enthusiastic regarding its value. An analysis of numerous reports that cows fed silage produced about ers who fed silage the past winter are The Wallowa County Farm Bureau 25 per cent greater production than SENATE PASSES MARINE BILL

The proportion of protien to carbo-hydrates in the mature corn silage is 1.15.1, while in the sunflower si-lage ft is 1.9.3. With low protiens feeds the the higher digestible crude protien of the sunflower would give it an advantage over the corn silage. Results from feeding experiments with sunflower silage indicate that more mature plants make a silage with a higher nutritive value, but with a higher nutritive value, but the best stage of maturity for cutigo, the best stage of maturity for cut-of ting the crop we do not yet know. As practically all corn grown in the high-the er altitudes of Montana would have rely to be ensiled when immature, these site the on. When digestible nutrients yield for per acre, drought and frost resist-number of the sunflower have a

> distinct advantage over corn for si lage purposes in the mountain val-leys of the West or in other sections

ing qualities of the sunflower have a

of the United States or Canada with similiar climatic conditions."

Why A Silo On Every Farm Careful students of agriculture agof which will be to dig cars out of the ree that in order to provide for the maintenance of increase of the fertilmass and see that they are forwarded ity of the soil, livestock in some form should be an important factor; that crop rotation is the best known fact-or against plant disease and insoct pests; that to profitably carry out a system of crop rotation with legungs as one of the crops in the rotation, there should be enough livestock on the form to compute all the foreage al to the action of the interstate com merce commission covering drastic rerouting and equipment pooling, which the farm to consume all the forage

and a portion of the grain. Such diversity of crops is an assur-ance against an entire crop failure. such as often occurs with any single crop system.

It provides for a better division of labor throughout the year and for a continuity of income.

The silo makes it both possible and profitable to keep more livestock on the farm. It provides a convenient and cheap

storeroom for roughage, preserving it in a succulent and palatable form. It combines more quality and great. er profits on the investment than any

other building on the farm. Silage made from well grown corn. Sunflowers, wheat and vetch, peas and oats, rye or barley, cut at the proper time, fed in combination with clover, alfalfa or vetch hay provides for a storm another than any transportation. In the source of the source of

a forage ration, succulent, palatable and properly balanced. It cheapens the cost of milk, meat provents waste in feeding, and saves labor.

It is an economical and satisfactory feed for calves or any young stock, for breeding ewes, brood sows-in fact, it may well be made a part of the daily ration for all farm animals.

It should never exceed more than one half the daily ration. Any dairyman who can break even with a silo, can easily make 25 per cent profit by the building and pro-per filing of a silo.

Crops can be put in the silo dur-ing weather that would make it impossible to cure hay or other fodder in any other way.

As a business proposition, any graphic requests were sent to the cam dairyman with a half dozen cows or usign managers of leading candidates more can afford to borrow money to build a silo, it would pay for itself in a short time.

The important factors of a good silo are-it should rest on a solid foundation, should be absolutely air-tight smooth inside and the heighth should

be three times the diameter. Secators Spencer of Missouri and Edge Thirty pounds of corn silage and of New Jersey, republicans, and Sen-15 pounds of alfalfa bay make a well balanced ration daily for a 1900 D. cow. With this forage ration, a cow that is giving less than 20 pounds of

milk a day cannot profitably use a

Powell Butte

WSS NEWS NOTES WSS

School for their summer vacation.

a ballot in Powell Butte Precinct.

ourchased a fruit farm.

fisherman, too.

CROOK COUNTI JOURNAL

WORK BEGINS TO END

portant Points to Keep

Cars Moving.

congestion which has threatened t paralyze the national arteries of trans

portation will be concentrated imme

Railway association were instructed.

Formation of committees at each of

30 "gateways" was ordered, the duties

These instructions were supplement

were designed to deal with the conges

The car committee began work Mon

Omaha, Seattle, Baltimore, Cincin

nati, Youngstown, O.; Minneapolis, St.

Paul, Norfolk, New York, St. Louis.

Boston, Denver, Philadelphia, Buffalo,

Portland, Or.; Peoria, Birmingham,

Kansas City, Cleveland, Detroit, Wash-

ing. D. C.; New Orleans, Fittsburg.

Louisville, Galveston, Atlanta, San

Francisco, Dallas, Toledo and Chicago

transportation, the interstate com

INQUIRY IS STARTED

Washington .-- A senate investigation

of the pre-convention campaigning ex-

penses and pledges of presidential can-

didates has been started. Acting un-

der the Borah resolution adopted by

the senate, the election committee au-

thorized a subcommittee to take up the

task and Senator Kenyon (republican,

Iowa) was named chairman. Tele-

paign managers of leading candidates

ie attend the sessions which began here

Senator Kenyon's associates in the

work, as named by Chairman Dilling-

ham of the elections committee, are Secators Spencer of Missouri and Edge

ators Reed of Missouri and Pomerene

Senator Kenyon announced that the

istestigation was not aimed at the sup

part or opposition of any candidate,

Monday.

of Ohio, democrats.

vent corrupt practices.

As a step to permanently relieve car shortage, which threatens to disrupt

expeditiously

tion as a whole.

day at the following cities:



Summer Reasons For This Sedan

Triplex Springs Insure Ending Comfort on All Roads. Overland Four Door S. doo Louis Comfort In All West

THE SUPERIORITY of the Sedan for autumn, winter and spring is even more comphasized in the wide range of summer motoring. It's thick permanent top is a cooler shield from boiling sun. Breezes are freely admitted or entirely excluded at will. Rain, dust and sudden cold, are shut out at your command by heavy plate glass which never cuts off your vision or leaves you feeling "Shut in." Now the Overland Sedan adds to all this convertible convenience, the riding comfort of Triplex Springs, and extraordinary light weight economy.

Touring, 5985; Roadster, \$985; Coupe, \$1525; Sedan, \$1575

WEAVER MELTON, DEALER **Prineville**

The Art of Not Hearing.

art of not hearing should be The earnt by all. It is fully as important to domestic happiness as a cultivated ear, for which both money and ime are expended. There are so many hings which it is painful to hear, so many which we ought not to hear. so very many which, if heard, will disturb the temper, corrupt simplicity and modesty, detract from contentment and happiness, that everyone chould be educated to take in or shut out sounds according to his or her pleasure.-Exchange.

Relatives a Pavement for Bride. In the Hervey islands a bride on the day before the actual marriage walks upon the backs of her future hus band's relatives, and on the happy day her relatives form a similar pavement for him, in each case from house to house,

The Bigger Share, China and India contain one-half the people of the world. The annual pilgrimage to Benares includes over a million persons

The Reckoning.

It's well we should feel that life's a reckoning we can't make twice over there's no real making amends in this world, any more nor you can mend a wrong subtraction by doing your addition right.-George Eliot.

Two Regular Jobs.

Ward and Vokes' idea of a regular ob was picking blossoms from a century plant, but our energetic nature upts us to look for a position tearing the Feb. 29 leaves off a deak cales dar .--- The Home Sector.



THURSDAY, MAY 27, 1980.

pred the slogan, One thousand silos on one thousand farms." It has been estimated that the feed-ing value of silage the past winter

steraged \$1,000 per silo. In Deschutes County the results with in growing and feeding sunflowers have been so , satisfactory that the Farm Bureau has inaugerand a strenuous and entusiastic silo phaign. The First National Bank Bend has volunteered to finance any farmer who wanted to build a They have also secured several tons of choice sunflower seed, which is furnished to farmers at wholesale

In Klamath County a number of formers have experimented with the wild sunflower which grows luxurto the proper stage, it is relishand eaten greedily by all kinds of estock. a while.

The digestible nutrients in 100 p unds of sunflower silage is 21.4 totail dry matter; 1.24 crude protien; 10.13 crude fiber, and nitrogen free extract: 0.37 ether extract with a nu-furtive ratio of 5.8 carbohydrate to Dr. Nevel, veternary practicioner, was called to the ranch of Roy Robper cent of protien.

Corn silage has 26.3 dryq matter; L1 crude protien; 15,00 crude fiber and free nitrogen extract; 0.7 ether extract, a nutrative ratio of 15.1 carbohydrate to 1.0 of protien.

In fattening beef steers it has been from her Hat Rock ranch, and visit-ed at the C. M. Charlton ranch a few demonstrated that a ratio of 1.0 protien to 8.0 carbohydrate is most ecomical. With young animals and dairy cows the most satisfactory rahas been found about 1.0 protien to 5.0 or 6.0 carbohydrate. Bulletin 131 of the Montana Ex-

pariment Station says: "The figures show that 100 pounds

of sunflower slage made from plants 5 per cent in bloom, compared to a like amount of slage from imma-ture corn, contains approximately the same total dry substance; that the sunflower silage is 0.24 pounds higher in digestible crude protien; that there are but 1.27 pounds more di-gestable fiber and nitrogen-free ex-tract in the corn slage, and that the ther extract is practically the same the proportion of digestable carbohy drates in the sunflower silage is 1.98 while the corn silage it is but 1:12.3. One hundred pounds of silage made from mature corn contains 4 pounds more total dry substance, 0.14 lbs. less digestable crude protien, 4.87 pounds more digestable crude fiber and nitrogen-free extract, and 0.33 pounds more digestable ether extract.

those that are fed dry forage

Measure for Ship Policy is Sent to Conference.

Washington .- The senate, without a record vote, passed the house merchant marine bill providing for a permanent merchast marine policy.

The measure then was sent to con forance.

Elma Peterson, Grace Pauls and The bill provides for the sale of Helen Snyder are at home from High government-owned ships to American Election day passed off quietly with citizens or corporations as soon as advery light vote, scarcely more than visable and pending such sale for the ne third of the registered voters cast operation either by the government Mrs. E. H. Stewart with her sister or under lease. A permanent board in law, Mrs. Gladys Stout, of Dakota of seven members will be named by who is her guest for the summer have gone to Hood River. Portland and other points where they will visit for the president, comprising two each from the Pacific and Atlantic coasts. one each from the gulf and great Mr. and Mrs. Fordray and family lakes, and the seventh from the in left last week by auto for their new terior.

Wood Expense in New Jersey \$15,000. Washington .- Frank H. Hitchcock, one of Major General Leonard Wood's bert seems to have them all beat and he appears to be Powell Buttes best vestigating committee that so far as he know the largest sum spent in any

Mrs. Jimmie Curtis came down state by the Wood organization was \$15,000, in New Jersey. He added that the next largest was \$12,500 in * Mary-

Bootleg Whisky is Expensive.

Houston, Mr. Houston wrote congress

Washington .- From \$60 to \$120 #

the the universe the state of t

pleasant party of girls for her grand daughter, Ruth Calvin. T occasion being Sunday afternoon. The delicious luncheon was served and the girls enjoyed the afternoon play- gallon is the ruling price for whisky

rts to treat a sick horse. Of all the fishing yarns, Jesse Sho-

ing games. Those present were Hel-in illicit trade, according to Secretary en Snyder, Elma and Clara Peterson, Houston, Mr. Houston wrote congress

Helen Curtis and Ruth Calvin. Mrs. Ike Mills visited with Mrs. Arthur Wurzweiler Friday. Mrs. S. D. Mustard has gone to year. Washington on a business trip. She

will soon return

LADIES ANNEX MEETING

one week, and will be held on June 8th at which time a report of the del-

The Journal does modern printing on short notice.

requesting \$1,500,000 for 1000 watchmen to guard bonded warehouses next Wheat Crop of 500,000,000 Bushels Washington.-- A winter wheat crop

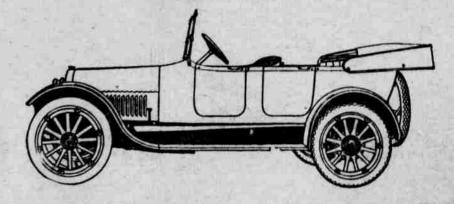
of approximately 500,000,000 bushels The next regular meeting of the was the forecast by the United States Ladies Annex has been postponed for Chamber of Commerce.

> Census Report Gives Portland 258,288. Washington, - The population of Portland, Or., according to the 1920 census, is 258,288, it was announced here. This is an increase of 51,074, or 24.6 per cent.

OR twenty years Buick engineers and designers have been moving forward, building a Buick prestige in motor car design and construction that has answered the world's challenge.

It has been an achievement worth the effort and established a Buick reputation of high standard and value.

The public has learned to depend upon the Buick Valve-in-Head Motor Car, and the great demands upon Buick dealers for Buick models is the highest compliment that can be paid to Buick achievement.



WHEN BETTER AUTOMOBILES ARE BUILT BUICK WILL BUILD THEM

H.W.HOWARD, Formerly with Inland Auto Company