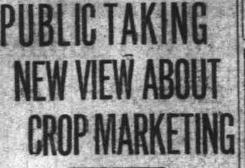
SATURDAY, DECEMBER 30, 1922.

EFFICIENT MARKETING



By R. C. Stewart

Now is the time to look over the ecords of the past year, to figure up the crop production, to find the profits and losses and to lay plans for the coming year. What lies ahead can only be conjectured, it is rather much of a gamble. Let the past be gone, but glean from it many lessons. Plan for the future. Make resolutions if that will help and they will if of the right kind, but intentions will do little without constant effort.

Farm crops and farm profits have not been unusually large during the past year. The producer was forced to gamble at both the farming and marketing ends of the industry. The weather dealt many a hard hand to piny. The farmer always has and always will have to gamble against the

There is a shrewd player weather. who still slis in the game that the producer is anxious to oust, a player that the producer has found always on the winning side. No matter how good the hand of the producer, that of the commodity gambler has been just a little better. No matter how many or what kind of chips the farmer places before him, when he cashes in receives the little end of the bar-The commodity gambler is a hig gambler and can freeze out the vidual farmers who enter the mar-

keting game. FAIR DEAL WANTED

Producers are finding it profitable to combine their forces and play-their hand together. By doing so they stand a better chance when they play the marketing game and have more cash when they settle with the banker Production has been materially inethods soil improvement and har-methods have all tended to head of registered Herefords. vesting production without much additional outlay of time or money. All tent itself with the grand champion-butterfat. She just missed a silver world might be fed. But has the farmer received a fair deal when the odity was ready for the market? best bulls. It would seem that he has not. After taking his investment, his time and won the sterling silver cup offered by his labor to produce the crop, gam-

ling against elemental forces in get-ing the crop ready for the market, he has had to see the crop he created used as a gambling stake before it eached the ultimate consu POWER IN GROUP

part of farming is beginning to be ble degree," says Cook. "Quality beef recognized. Special markets can take is the only kind that is showing a but a small part of the farm com-modifies. The average producer must will be the producer of quality cattle take his chances in the general mar- who will continue to make profits in kets. Alone he stands but small chance, the future."

of receiving an equitable return. Through cooperation with his fellow Through cooperation with his fellow producers he gains the power to de-mand justice. As a part of a group, he is in a position to go out and



WESTERN BULL WINS

grand champion at the Chicago livestock show.



Starting tests at 5 years, 9 months

sired by G. G. Chief of Ashburn, he

burn, has two creditable register

son of the gold and sliver medal bull, Golden Glow's Chief. Minna of Ash-

NOTES, FROM

tate with pointed stem end should rejected for seed purposes.

Chicago, Dec. 30 .- The Northwest as "natural cattle country" and the of age, Minna Lass of Ashburn has

Hereford as America's premier beef just finished a most creditable register breed won new recognition at the In- of merit record. In 365 days she proternational Live Stock Exposition , in duced 12358 pounds of milk and 752.59 is now being done by Dr. Sims, and in Chicago recently when a Montana bull, pounds of butterfat. Her average test splie of the fact that this is a year "Panama 110th," won grand champion-ship honors in competition with the best Herefords from the leading Amer-ican and Canadian shows. The new champion was bred and exhibited by through adoption of better champion was bred and exhibited by also very creditable as each time she of farming practice. Im- A. B. Cook, veteran cattleman of strains, scientific cultural Townsend, Mont., who operates two

Minna started test as a junior year old and in one year produced \$823 pounds of mlik and 555.22 pounds of Nor did the Cook show herd con-Minna's sire. He has 21 register Andrew J. Mettler of Menno, S. D., merit daughters to date. Minna of Ashburn was her dam. This cow was

the Institute of American Meat Packers for the best bred carload of Hereford cattle. His winning load was sired by a Panama bull from the Cook

Holstein's Milk **Records and Feed** Burn; Contest Off The services of H. P. Barss, plant pathologist. Oregon Agricultural Col-Experiment station, were secured to



THE OREGON DAILY JOURNAL, PORTLAND, OREGON

OREGON COUNTRY LIFE

Big stumps must be more Few people realize that the livestock industry of this state suffers annual ically removed. It is even more imlosses equal to twice the taxable portant that the roots of such stumps valuation of some of Oregon's coun- be eliminated from the cultivated ties, yet this is true if the estimates depth of farm lands. Land clearing operations are progressing too under the high cost of present of the state sanitary board and its representatives can be relied upon, writes a resident of Hermiston. known methods. The Zysset method of clearing Every year a severe outbreak of

some disease, and sometimes more than one, decimates the herds and flocks of the Northwest. The "walking disease" which attacked the horses, the shape scab, the black by in the range stump lands has been investigated for when properly managed, satisfactorily consume the stump and roots. Any successful system must remove the herds, tuberculosis and infectious abor-tion in dairy herds, have been largely responsible for these losses. All of these diseases respond to control meas-ures, and some of them to definite roots from the plowing depth. T Zysset device is simple and durable

To show these burners in operation in real stump land in Clackamas two This season Hermiston has had an attack of hog cholers which has prac-tically wiped out some of the best herds in Umstilla county. Two men alone have lost not less than \$7000. Had it not been for the strenuous Cordill farm, one mile west of Molal-Had it not been for the strenuous Cordill farm, one mile west of Molal-efforts put forth by the state sanitary in the state sanitary in this disease would certainly have be-come widespread. The losses in this state and district through infectious abortion have been so severe as to cause great discourage-ment of many dairymen. Several par-tice of the program will be necessary for a proper understanding of the actual field demonstration and should not be

ment of many dairymen. Several par-ties are known who have lost nearly

considerably above this through this disease. Largely through the efforts of Dr. B. T. Sims of the Agricultural college, control measures are being and clearing in the stump patch. Five bat-teries of burners will begin operations a week before the demonstration so those attending will have an oppor-tunity to see all phases of the Zysset college, control measures are being put in effect which it is hoped will elim-

method. Arrangements are being made to show the use of pullers and The severe losses suffered by Her-miston breeders have caused them to blasting powders. January 13 a similar demonstration will be held in the vicinity of Boring. ask the coming legislature for the continuance of the good work which the exact place to be announced soon. For further information in this con-nection interested persons may ad-daess the county agent at Oregon City.



"You have something in your horti-Hillsboro, Dec. 30 .- A summary of the last two year's efforts at onion other institution in the United States smut control in Washington county by has." writes C. I. Lewis, managing smut control in Washington county by of the "American Fruit editor County Agent O. T. McWhorter shows

Grower," Chicago. The "Fruit Grower" has just put that in 1921 an increase of 216 sacks a has had to see the crop he created sed as a gambling stake before it eached the ultimate consumer. OWER IN GROUP The importance of the marketing their cow herds to the highest possionions per acre on the treated plots editor says this story is very inter-and nine sacks per acre on the un- esting and readable and will be of in-

treated areas, making an increase of terest to growers all over the country. 247 sacks per acre for the trouble and "I beleive you would do well to expense of using formaldehyde. "I beleive you would do well to give a great deal of publicity to this work because there is tremendous in-terest in it all over the United Staes," the editor writes. "I have been hoping be supported in a nice way on



MAY W. OLLIE HOMESTEAD

Holstein cow who, on December 18, completed a year's semi-official est which places her as world record butter producer.



Chicago, III., Dec. 30.-With a yearly semi-official record of \$218.55 pounds butter from \$1,610.6 pounds milk test-ing \$3.85 per cent, May Walker Ollie Homestead, a Holstein, is America's new champion butter-producing cow over all breeds and ages. As a con-sequence of file performance, finished Docember 18, she displaces the former merican record heid by Duchess Sky-lark Ormsby. She is owned by the Minnesota Holstein company, Austin. Min. The new champion is a seven-year-old daughter of Fiebe Laura Ollie Homestead King and May Walker off Arden, both of whom are of high pro-ducing and show winning ancestry. Her weight, 1,765 pounds, combined with dairy temperament and refinement

the north end, as it took for the big catches in the open Tillamook valley. The only condition of the contest was that prize winners should turn in at least 100 skins. A total of 1808 moletemperament and refinement with dalry

also mark her as an excellent type of dairy cow. Her grein, ration during this test consisted of bran, ground bats, distil-lers' grains, hominy, oil meal, giuten and cottonseed with suit and a limited skins and 594 pocket gopher skins, or 2403 skins altogether, were turned in to the county agent's office, according amount of mineral compounds. She also received liberal amounts of al-falfa hay and, during the latter part to the report received by the represen-tative of the biological survey of the United States department of agricul-ture, who assisted in organizing the campaign. In addition to the prises, the 1800 moleskins will be sold and

of her test, corn enslinge and beets. The uniformity of May Walker Ollie Homestead's production during her entire yearly test period is an out-standing feature of her record. In no one calender month did she produce less than 80 pounds butterfat or 2000 pounds milk, nor did she produce over 3000 pounds milk in any month. She carried a calf almost six months of her carried a calf-almost six months of test period.

should.



BETTER PAR

The 15 directors of the Pacific Co perative Wool Growers on Dec 21 completed a two-day meeting at the offices of the association in Po They expressed themselves as high satisfied with the result of the year satisfied with the result of the years business. The association has handled over \$400,000 worth of wool and mohair, and prices received by members have been several cents per pound above the prices obtainable outside the asso-ciation at shearing time. The association consists of 2200 wool and mohair growers residing principal-ly in Oregon, though with member-ship in Idaho, Washington and Cali-fornia.

The directors attended lunch the Portland Chamber of Cor on Wednesday and were addres Chas Stewart, vice president Northwestern National bank, a D. B. Dodson, general manager obscher D. B. Dodaon, general manager of in chamber. Speeches were also made b Directors E. A. McCormark, Eugene W. W. Poland, Shedd; Claude Br obanan, Corvallis; J. R. Colema Coburg; F. DeFord, Central Polar Geo. H. Thompson, Maclay; R. Ro Booth, Yoncalls, and Freeident Fre W. Herrin of Ashland, R. A. War manager of the association, preside Other directors in atondance were L. Beckley, Dixonville; J. W. Smith Aurora; J. B. Cornett, Shedd; A. J. Flint, Beaverton.

Flint. Beaverton. The wool growers' board passed reso-lutions endorsing and approving the Portland Chamber of Commerce program for stats devels operative marketing.

Cattle Testing in Lane Successful

Eugene, Dec. 30,-More than 10,000 ead of cattle have been tested for tuserculosis in Lane county and a su ful squirrel poison campaign stimated value of \$85,000 was d ducted in 1922, according to to the com-pleted report of Ira P. Whitney, county agricultural agent, to the United States department of agriculture. The report enumerates the different activities along agricultural lines and the results obtained during the year. In the testing of 10,025 animals, 91

were found to react to the T. B. test

TO HOLD DEMONSTRATION Medford, Dec. 80 .-- A printing will be held at orchard near Talent on January 3, to be conducted Agent Cate and County Fri tors Howard Warner and Oatman. It had been erro nounced previously that t stration was to be held D the money returned to the young trap-

Top Prices

Raw Furs

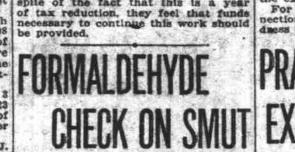
Highest market prices

paid-furs graded by

Quick

Returns





seek new markets and new buyers if those at hand do not give promise of

While the past year has not seen many new marketing groups organized in the Northwest, yet those already established, with few exceptions, have hown healthy growth. Even more mportant, from the standpoint of the future, is the favorable impression hat many, not now members of any marketing group, have received. The future outlook is bright, for the demonstration of collective marketing has won many converts to the cause, who will eventually fall in line and join with their fellow producers. The gen-eral public has been educated to the lars. feasibility of such methods of marketing, and where they once doubted its ultimate success they are begin-ning to realize that it is to be the

solution of economic problems that have long confronted the people as a By individual effort the farmer can

grow a crop, take it to market and receive what he is offered. By col- ditches and tiles. lective effort, he can grow a crop with the assurance that when it is ready for the market he will be able vor as a form of organization for reto have some say in fixing the price. In planning for the new year many existing irrigation systems. The huwill take into account the opportunities offered to those who help themselves and help their neighbors by working

together.



To help you in properly cultivat-ing the rich walnut soll in your section and make it yield the greatest harvest at the least cost, we have illustrated litera-ture prepared by walnut experts that we will be glad to furnish you free upon request and with-out any obligation on your part. Simply use the attached coupon.

Regardless of how many trees you want or of what variety two have anything you want), it is important that you plant trees of the best quality; healthy, vigorous and produc-tive. That's the only kind we handle-"Nature's Best."



in the United States amounted to ap-proximately 19,000,000 acres and the cover. Stanhope would have finished in the United States amounted to apannual gross returns from irrigated landa is now nearly half a billion doi-lars.

In the task of converting so large an extent of arid lands into highly productive fields and orchards, the bureau, through its investigations, has rendered substantial aid. Methods of applying water to land have been studied in the principal irrigation sections. Investiga-tions have also been made of the rise

of alkali and the capacities of drainage

claiming arid land or for improving reau has aided a number of Western states in perfecting laws relating to disiricts, and last year a careful study was made of the operation of the irri-

Potatoes good enough for certifica gation district law in each of the states. Much valuable work has been done by tion were grown by a good many per-sons last year who sold off their choice stock for seed and planted only inthe bureau in finding the cost of obtaining a water supply for arid lands. Frequently it is less than the farm-er's expense of preparing his land for irrigation, purchasing equipment and building the necessary improvements.

Jersey Breeders Form Association, Plan 'Dairy Week'

Buying of repair parts and putting them on at this time will save much time when crop conditions are rushing the work next summer. There are rienty of repairs available now or there is time to get them before harvest is

Freewater, Dec. 30.—The dairymen of the valley held an important meet-ing last week at the Ferndale Hall for the purpose of advancing the breed-ing of Jersey stock in this section. Dr. Ing of Jersey stock in this section. Dr. B. T. Simms of O. A. C. and H. A. Mathieson of Salt Lake City, both of the dairy division of the agricultural department addressed the meeting. A temporary association of the Walla Walla valley Jersey breeders was formed with Clarence Bixby, president.

O. C. Plaquet, secretary-treasurer Victor Coffman, Frank Nelson and Howard Ransome, directors. The next meeting will be at Walla Walla early in January during dairy week.

OFFICES CONSOLIDATED

Wenstches, Wash, Dec. 30. --- The solis investigation office and county agent have been consolidated as the result of action taken at a meeting held at the courthouse. Roy Larson, former county agent, has accepted the position of county agricultural agent. After three hours of heated debate, a

After three hours of heated debate, a motion supporting the county commis-sioners and recommending that the disposition of the county agent and soils investigation work be left in the board's hands, was passed. This ac-tion virtually amounted to the con-solidation of the two offices.

COUNTY HOME AGENT Medford, Dec. 30 .- Miss Grayer feich, a graduate at Iowa college

Ames, Iowa, who has recently com-pleted a special course at 0. A. C. will succeed Miss Florence Pool, resigned, as county home demonstration agent in Mediord. Miss Pool has been deminstrating for six years.

cures,

inate this trouble.

TARICATION WARDS A Stanhope Belle Johanna, who has made Holstein, history in Oregon, will be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on with her second preat year of production. Her feed, be unable to carry on the bars, were saved. One registered in the United States amounted to ap-the back, but it is thought will re-the solution. A solution of one ounce of formal-dehyde to ome gallon of water is dis-tributed through a 5-16 inch opening in the back, but it is thought will re-built to the rows at seeding time. A tank is attached to the planter which car-ries the solution.

ries the solution.

Onion smut is somewhat serious on several farms in Washington county, and it is spreading. It is not at all improbable that the formaldehyde treatment, which has proven so suctop as a world milk producer, since her first six months would have shown her to have given approximately 18,000 pounds of milk. S. E. Hodgens, who has assisted Mullenhoff throughout the tosts with helpful advice and by preparing the feed ration, says that it will be impossible for Stanhope's owner to carry on her test to com-pletion.

Bureau Formulate Next Year's Plans

The directors of the Oregon Farm

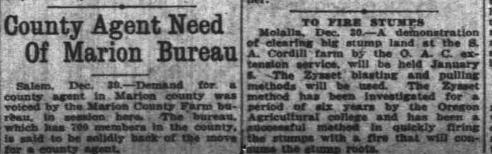
Bureau federation were in session at their office at 212 Fitzpatrick building all day December 20, formulating plans for carrying out their organization campaign for 1923 for orderly marferior sorts of the certified product. In nearly every instance this resulted in bers present expressed their intention too much disease for certification this year. In sorting the potatoes this win-ter save plenty of good, smooth, healthy tubers for plunting next spring. It is not safe to save for seed the very small and very matured potato as they are likely to have mosaic. Every print to heart a successful year was

small and very matured potato as they are likely to have mosaic. Every po-tato with pointed stem end should be part of the town and commercial inerests will remove one of the greatest batacles to farm organization."

> Berry Growers of Chehalis to Join N. P. Association

Valley View Land Chehalis, Wash., Dec. 30 .- At the **Tillers Form New** neeting of the berry growers in this section, which was held in the Chehalis

Farm Bureau Unit Medford. Dec. 30.—The farmers of Valley View, east of Talent, have or-ganized a community unit of the coun-ty farm bureau, this being the first community in Jackson county to or-ganize under the plan adopted by the state farm bureau federation. One of the principal matters calling for the attention of this unit is irrigation. Meetings are planned for the last Sat-Meetings are planned for the last Sat-urday of each month. Each member pledged his support to the farm bureau for the coming year. Officers elected were J. R. McCracken, president; J. D. Lowe, vice president; H. R. Reachert, secretary-treasurer.



Salem, Dec. 30.-Demand for a county agent in Marion county was voteed by the Marion County Farm bu-reau, in session here. The bureau, which has 709 members in the county, is said to be solidly back of the move for a county agent.

the experimental side so you can go ahead and capitalize the present building for experiments as well as teaching." This new work was started a few

years ago and has already developed many new facts of interest about jam, jell and dried products, and closer use of culls and waste products of

manufacture. E. H. Weigand is in charge.



The growth of mold on butter in tubs is a cause of great annoyance to dealers and a common source of loss to creameries. Preventive treatments designed to do away with this trouble have been devised by various people, and these have been carefully studied by the United States department of agriculture. The treatment that has been found most successful

that has been found most successful consists in soaking the tubs in cold water, steaming them for 30 seconds with live steam, paraffining the in-ner surface, and then rubbing over the paraffin with salt. In addition, the liners for the tubs are soaked for 30 minutes in a saturated solution of boll-ing brine. Under the supervision of the department several million pounds of butter have been packed in tubs and liners treated in this manner and no cases of mold have been reported. A number of methods of treating tubs and liners have been tried out in comparison with the one just de-

in comparison with the one just de-scribed, but no other has been equally successful. Some tubs and liners were merely soaked in cold water, and in these the mold made an abundant growth. When the tubs and liners growth. When the tube and inters were soaked in a saturated solution of cold brine the growth of the mold was somewhat reduced. Butter in tubs that were soaked in water and steamed for 30 seconds with live steam, and lined with liners that had been

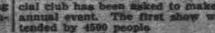
dipped in a saturated solution of boliing brine, developed very little mold; but results were still better when par-affin and salt were used as described

above. The treatment found most satisfac-tory is inexpensive and meets the needs of creameries of any type and in any part of the country.

REFRESENT O. A. C. Oregon Agricultural College, Corval-lis, Dec. 30.-Dr. Willibald Wealger, professor of physics, and W. S. Brown, whose work as horticulturist at the Oregon experiment station is credited with doing much for the horticultural industry of the state, are representing the college at a meeting of the Ameri-can Association for Advancement of Science, now in session at Cambridge, association, bera. The temporary committee in charge that will look after the sfairs of the organisation is L. G. Colyn. T. F. Snively, Henry Olson, M. Stine and E. F. Hilborn. The organisation is made up of local branches and the pur-pose is to market the berry output of the state in a more satisfactory man-ner.

Wenatchee Apples Win Wenatchee, Wash., Dec. 30.-Two boyes of Wenatchee apples were ex-hibited at the Purdue University Hor-ticultural show and according to word reaching here won the highest prises at the exhibition. The apples were shown by Paul Piper, who is attend-ing Purdue university. been approved.

WANT SHOW BEPEATED Wenatches, Wash., Dec. 20.-We-natches's first home products show was such a success that the Commer-cial club has been asked to make it an annual event. The first show was at-tended by 4500 people



To emphasize the need of food con-trol laws, the United States depart-ment of agriculture calls attention to the great growth of food preparation in factories. Not many decades ago much of the food consumed was pre-pared in the home or obtained in the immediate neighborhood, and since the consumer knew about the conditions of It is well known among agricultural eaders of Western Oregon that drainage of the wet lands is an absolute necessity before extensive agricultural development can progress as it

According to reports from the mem-bers of the Oregon Clay Workers' as-sociation, 1.532,500 feet of tile was sold in 1921 for farm drainage purposes. Under average conditions this would serve 2000 acres or more, according to the soli type drained. Any increase in drained acreage can be figured as an asset to the locality, but if the work is continued at this rate it would take 375 wears to deate the 750.000

work is continued at this rate it would take 375 years to drain the 750,000 acres of land needing drainage in the Willamette valley alone. It is assumed that the concrete tile used in farm drainage was offset by clay tile used for road and besement drainage. The Oregon experiment station has carried on experimental work which has shown the most economic method of drainage for various soil types. The extension service has provided a soils extension service has provided a soils specialist who devotes most of his time in the drainage season to assisting groups of farmers in working out plans for drainage systems and con-ducting demonstrations showing prop-er methods, grades and depths for

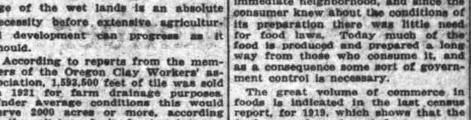
ar methods, grades and depths for laying tile. Requests for drainage assistance should be sent to the local county agent, or if there is none in the county where assistance is desired, to the O. A. C. extension service, Corvailis.

Course in Repairs Of Farm Machinery Is Added at O. A. C.

ome of these machines.

THREE RIVERS GROWERS

other crops to discuss quest interest to all growers and



food manufacturing industry as a whole is more than four times larger in value than the next largest manufacturing industry, which is iron and steel. Meat packing alone represents a greater value. The total value of manufactured food products for 1919 was \$13,391,914,006, while automobiles

produced in the same year were valued at \$2,387,833,000, boots and shoes at \$1,149,560,000, clothing at \$2,343,196,000, and foundry and machine shop prod-uom at \$2,321,129,000. Among the food products that make up the grand total, flour-mill products stand next to packing-house products, the figures for the year being \$2,193,-007,000 as compared with \$3,995,97,000. Bakery products amounted to nearly \$1,500,000,000 and sugar almost to



Oregon Agriculturale College, Cor-vallia, Dec. 30.—To give the farmers of Oregon the technical knowledge to op-erate and repair farm machinery and

tractors, a winter short course is oftractors, a winter short course is of-fered at the Oregon Agricultural col-lege, beginning January 2 and ending March 17. More than 38 hours a week in laboratory work, with 10 different makes of tractors, under the regular instructors and experts from the vari-ous factories will be given each man enrolled in the course. Many farmers near Corvallis have brought their farm machinery to the college department for students to re-pair under the supervision of the fac-ulty members. The short course stu-dents will have a chance to work on Purchasing baby chicks from a re-liable breeder is one of the cheapest and best ways of getting started in the poultry business. Of course one should have adequate brooders and houses to rear the chicks, as well as a knowledge of brooding in order that normal, well grown pullets be made ready for the laying house in the fall.

Professor Buchanan, Washington state poultry extension specialist, has decided that any hen which lays less decided that any hen which lays less than 120 eggs a year is a cuil and abouid be taken off the nest, fattened and made into a chicken pie. In this connection it is interesting to note the average United States hen lays less than half the number fixed by the Washington authority as the dead-line between acrubs and thoroughbreds, Pa-cific poultrymen evidently have high ideals of production. dents will have a chance to work on

LAND BANK PROVES BOON Morton. Wash., Dec. 30.—According to reports made to the local farm association, the Eastern Lewis coupty farmers are approved borrowers from the Federal Land bank at Spokane of approximately \$18,000. James N. Sword of Morton has received his loan of \$2500 and loans of J. W. Peters of Randel for \$7000; George W. Peters of Randle for \$5700; E. C. Skaggs of Davis Lake for \$1500 and C. E. Dun-away of Davis Lake for \$1500 have been approved.

Thomas F. Murphine of Seattle an-nounces his withdrawal as a candidate for speaker of the house in the state tegislature. This leaves Mark E. Reed of Shejton as the only candidate.

KINKADE GARDEN TRACTOR



Pasco, Wash, Dec. 20.—The dir of the Three Rivers Growers an tion met in Pasco with the growe strawberries, asparague, note Machine Co.



experts.

One egg now is worth two in the spring, says the O. A. C. experiment station. It is important that the birds go to roost with a good full crop dur-ing cold weather. A little extra grain in a trough an hour after the regular grain feeding at night will help to ob-tain this condition. It takes more fuel for the hen's furnace during cold weather and heavy production than when the birds are molting and rest-ing. CHICKEN HOUSE SKYLIGHTS to in by 40 in. Trice, gland by Well Dis is the dis recommended by Well Asthington Repetiment Station. Orders fill FIR DOOR Five cross panel doors, 3 6 ft, 6 in., at, each One panel doors, at, each . cheerfully refunded if not estimate for free illustrated catalog No. 5, a heipful hints for remodeling the

O. B. WILLIAMS CO ESTABLISHED 1895

SDDD THE KIND THAT GROW "You Can't Keep Them in t Write for Prices for Seeds FOR FALL SOWING J. J. Butzer Front and Taylor Sts. Portland, Oregon HIDES_WOOL Consers Rick, Polls, Mobals, We Are in the Market. Write for Prices and Shipping Tam PORTLAND MIDE & WOOL CO. GEORGE M. STRALSVAN, Manager 107 Mailer Sys. H., Periland, Op.