

A Trick in Seed Selling. The Grain Dealers' National Associ ation, recently in session in Milwa:

kee, passed the following resolutions Whereas, Seed houses do a large business in the sale of seed grains and thereby may materially affect the general business of the crops of grain thus produced, either for better or worse; and,

Whereas, It is known that send thus sold by seed houses does not all ways possess the merit of type anbreeding sufficient to meet the expectations of the purchaser, and in facoften does not tend to raise the standard of the general crops pro duced. For example it has been too common a practice for seedsmen to purchase ordinary corn from farmers' cribs and sell the same under special brands when in fact it possessed no special merit whatever, with respect to type and breeding, and the same is true in regard to other grains; there

Resolved, That the Grain Dealers' National Association, now in conven tion assembled in Milwaukee this 23c day of June, 1904, does hereby urgent ly request all firms engaged in the selling of seed grain to adopt a line of business policy that will result in giving more attention to the questions of type and breeding and adaptability and thereby assist in improving the quality and yield of grains; also,

Resolved, That the secretary be instructed to send a copy of this resolution to all the principal firms engaged in the business of selling seed grains in the grain producing states, and also to all the leading agricultural papers in the country.

The practice against which the resolution is directed is one that has long been condemned by conscientious dealers. It not only injures the farmers, but injures the firms that are try ing to do an honest business. It is gratifying to see a great association take the stand that this one has taken. The agitation is sure to bear fruit .-Farmers' Review.

Spelt (Triticum Spelta).

Spelt is a cereal which in appear ance is intermediate between wheat and barley, but, in reality, is one of the types into which wheat is divided. It is a native of the countries near the Mediterranean sea. At the present time it is grown principally on the poorer soils in Switzerland southern Germany and northern Spain. It is also grown at an elevation in Swit zerland where the common wheat (Triticum vulgare) will not thrive For general cultivation is is consid ered much inferior to the finer varie ties of wheat. The head is open, narrow, beaded or bald, and is usually very long. When the grain is threshed the head breaks into pieces at the different joints, or nodes, leaving the grain still clasped firmly by the chaff. average yield of 1,623 pounds of grain per acre.-Ontario Station.

Loss in Over-Ripe Wheat.

In 1879, Dr. R. C. Kedzie, in an exhaustive study of the ripening of wheat, pointed out that there was a slight loss in weight between complete ripeness and the stage generally designated as dead ripe. Subsequent where have given like results. There the grain becomes over-ripe, but a covered with salt. given number of well trist kernels or the product of a seven area, kept in the ordinary manner, will weigh less if taken from an over-ripe field than if taken from a field cut at the proper time. Moreover, the amount and quality of the flour produced and the germinating vigor of the grain itself are less if the wheat is allowed to become over-ripe than if cut at an early period. These facts are now well recognized by farmers, and ordinary practice is regulated by this knowledge. The loss in shelling is undoubtedly the most important one, and fortunately it can be controlled in a inrue measure by a proper selection of varieties combined with harvesting at the proper searon.-Michigan Sta-

Whitewash is good in the bog pens. as well as in other parts of the buildings devoted to live stock. The applieation of this once or twice a year will so a long ways towards keeping the lice out of the woodwork of the

A word to a plant out of place. Wheat may be a weed in a corn field. I 449.237 pounds and of cheese 237.145 and even a word to a wheat didd



As Milk Grows Old.

in an experiment on the relation of mperature to the keeping property milk, at the Connecticut Storrs ation, the bacteria in milk multiied fivefold in twenty-four hours hen the temperature was 50 degrees and 750 fold in the same time hen the temperature was 70 degrees. Milk kept at 95 curdled in eighteen ours, at 70 in forty-eight hours, and t 56 fn 148 hours. So far as the keepis property of milk to concerned, low mperature is considered of more uportance than cleanliness.

In milk kept at 95 the species deeloping most rapidly is the undesirble one known as Bacillus lactis aero-

At a temperature of 70 this species evelops relatively less rapidly in the any degree of tenderness detracts very cidi, which latter is very desirable n both cream and cheese ripening. The bacteria in milk kept at 50 inrease slowly, and later consist of ery few lactic organisms, but of misellaneous types, including many orms that render the milk unwhole-

These bacteria continue to grow lowly day after day, but the milk eeps sweet because the lactic organams do not develop abundantly. Buch milk in the course of time

ecomes far more unwholesome than our milk, since it is filled with organ sms that tend to produce putrefac

Although the temperature of 50 de crees is to be emphatically recemnended to the dairyman for the purlose of keeping his milk sweet and in proper condition for market, he must specially be on his guard against the eeling that milk which is severalays old is proper for market, even hough it is still sweet and has not

Ontario Station.

Whether she possesses any points that

would adapt her to some particular re-

gions of this country is a matter of

conjecture. Perhaps in some of our

more mountainous districts in the

bouth and in the far west she might

Docillty of Pure-Bred Hogs.

Quite the reverse is the case. Old nilk is never wholesome, even though t has been kept at a temperature of 0 degrees and still remains sweet and

This very considerably modifies ome of our previous ideas concerning nilk, for it has been generally beieved that, so long as the milk re nains sweet, it is in good condition or use. Quite the contrary in this ase, if it has been kept at a temperaure of 50 degrees or in this vicinity. It is not unlikely that it is this act that leads to some of the cases of ce cream poisoning so common in ummer.

The cream is kept at a low tempera ture for several days until a considerable quantity has accumulated or a demand has come for ice cream, and when made into ice cream, it is filled with bacteria in great numbers and of a suspicious character.-Prof. H. W.

When Salt Appears in Butter. In the summer time it is quite com

In order to make a separation of the non to see butter with salt standing shrunk for months from poor feed chaff from the seed, special machinery | In it. Agricultural papers frequently is required. The grain 's medium receive letters asking why the sait hard, and somewhat compressed at comes out on the butter. The explanathe sides. The grain in Ontario fre- lion is simple and the butter can be quently called Spelt belongs to the easily kept in a normal condition. The Emmer class, and is, therefore, im- salt comes out of the butter simply properly named. To find out the because the butter is kept in a dry value of Spelt for growing in Ontario, atmosphere. This causes the moiswe have imported at different times ture in the butter to move toward no less than ten varieties from Swit- the surface of the butter and evaporzerland, Russia, Germany, the Argen- ate into the air. As it was salt water tine Republic and the United States. in the butter it is salt water when it Two of these varieties proved entire gets to the surface of the butter failures, two others gave poor results. But in evaporating it cannot take the and the other six varieties yielded salt with it, but has to leave it. At moderately well. As the grain is en- first the amount of salt deposited is closed by a chaff somewhat similar to so small that the residue of salt is oats, and weighs less than 40 pounds not noticed. Later, however, the acper measured bushel, the results here cumulations become so large that they presented are given in pounds, in are apparent to the eye. If the butstead of bushels of grain per acre. ter were weighed before the evapora One of the best varieties of Spelt has tion and afterward it would be found now been grown in the experimental that the loss of weight had been con plots for five years, and has given an siderable. Keeping the butter in a moist place will prevent the accumulation of salt. If the place where the butter is stored is opened several times a day it will be advisable to keep a crock of water in it, that the evaporation may regulate itself. But where butter is stored in a cool place that is not often opened there will be little trouble from this cause. The lower the temperature the less the experiment at this college and else- evaporation. Places where the temperature is high and ventilation good is not only a loss by shelling when dry out the butter quickly and leave it

New Zealand and Dairy Exports.

The general public does not, per haps, realize how large a place New Zealand is filling in the production of butter and cheese for consumption in England. New Zealand is as yet but thinly populated country, and the annual receipts of several million do lars for butter and cheese sold-in the English market is a considerable iten. The trade has largely been built up furing the last ten years. It now amounts to about seven million & iars for butter and a million fo beese. For the year ending March 1895, New Zealand exported butter to the value of 262,244 pounds and cheesto the value of 161,383 pounds. pound is equal to \$1.55 in our money By 1900 the exports of butter from New Zenland were worth 691,76" pounds and of cheese 208,258 pounds The development has been very

frequently fils is enough when muni- orchard. ested to stop abuses. steady, showing the healthy condition of the trade and the gradual is The winter apple is still the great crosse in the cow population of New norey maker among fruits. Men lose Zealand. For the year ending March. meney less often on this kind of fruit 1964, the exports of butter were worth Wan on any other, jodging from coneferous as they stated,

NATHAN SELLS IT FOR LESS.

he along the sare fine.

Dalry Associations.



If we are to maintain and develop Tree Growth on Sand Dunes.

our trade in bacon with Great Britain In various parts of Illinois and it is of the greatest importance that neighboring states the sand dunes, we pay strict attention to quality. Not formed by the wirds in past centuries only must our hogs be bred to give and not now blowing, are covered with the desired conformation, but they a growth of trees, such as oaks and must be fed and managed in such a maples. The writer saw such dunes way as to give the desired quality. One in Kankakee County, Illinois, fast of the greatest defects in quality with week. There is no better use to put which our packers have to contend is these dunes to than to grow trees on tendency of some sides to turn soft them. But an improvement could be furing the process of curing. Soft made by cutting off the present growth ness has nothing to do with fatness; of trees and seeding to white pines. in fact, a thin side is more apt to de The latter would make a much more ing tendency. velop softness than a fat one. In a vigorous growth. Or, what is better, soft side, the fat is soft and spongy; the pine seeds might be sown in the and sometimes even the lean is affect groves now standing, and the trees There are all degrees of softness now standing on them cut off for fire up to a mere slight tenderness; but wood or various other purposes as fast as the pines push up. The oaks and anjority of cases than Bacillus lactis | much from the value of a side, and a | maples do not make a large growth on really soft side is practically worthsuch land. One man said that if the less. The percentage of soft sides is Almighty wanted pines to grow on sometimes very high, even as high as such soil they would have been placed 40 per cent of the total at certain sea- there. But this hardly settler the matter, in the minds of most people; sons of the year. It will, therefore be easily understood that such a condiis they realize that the Almighty has given us a few problems to work out tion represents an enormous shrinkit is commonly believed that the natage in value; and this loss is bound to ural growth of trees indicates the be reflected in the prices paid the character of the soil, and that the farmer for his hogs, to say nothing of that do best there. This is a safe rule to follow generally but there as a safe rule for \$5c. kind of trees will grow on any soil the injury to the reputation of our bacon in Great Britain. This is not a to follow generally, but there are exmatter, therefore, which affects mere ceptions to this rule, and such exceply the packer. It affects the bacon tions are to be found on these isolated industry as a whole, and the farmer, sand dunes. They are like islands in sconer or later, must shoulder the he sea. All around the surface of loss. It is important, therefore, that the farmer should pay particular atloamy soil rather than to sandy soil. tention to the question of quality.-If some birds had dropped the seeds of the pine cone on this land the pines would have taken the lead and crowd-The Kerry Cow. a.! out the other trees, and the result The Kerry cow is being written would have been a stately forest of about quite extensively in our foreign pines on each dune. But whence exchanges, and it is not improbable should the seeds come when the land that she is among the breeds that will some time be known in this country trees of a nature differing from the

> medium in which to grow. supply a demand for a dairy cow that is poorly supplied at the present time. Fall Planting of Trees. The cow has already assumed consid-For a large part of the north fall erable importance in England on acplanting is profitable, especially for count of being small in size and being that region lying south of central Illialso able to thrive on poor short pasnois and east and west of it. In Michture. Evidently she has been develigan the line of territory in which fall oped under hard conditions. Some of planting is safe swings to the north, her English friends claim for her that on account of the mildness of Michishe will give more milk and butter acgan, due to the influence of the lakes. cording to her weight and on poor pas-We have urged farmers in the past turage than any other breed of cattle to be careful about tree planting as to on the same kind of pasturage. On season, and we still have to give this the other hand, the use of good pasadvice. Fall planting should not be turage seems to be against the Kerry followed in Wisconsin, northern Illicow, as she at once begins to take nois, northern Iowa and above that, on flesh and shrink in her milk. One man pays that the Kerry will live and as the trees are more likely to live if do well where a Jersey cow would starve. She is said to possess one quality that certainly is not common with cows and the last of the common with cows and the last of the common to the common with cows and the last of the common to the common with cows and the last of the common to the common t with cows and that is the ability to be preferable to the other for a 90. regain her milk flow when it has been number of reasons. There is more ime to do the work in the fall than in the spring, for the farmer finds it This is a point in her favor, if it can necessary in the spring to use every be established. The Kerry is said fine day for the putting in of his regto be very hardy and to be able to ular farm crops. If they are put in in pass the Irish winter without shelter. the fall, there is more time in which to prepare the ground. Then, too, there is a longer period in which to It is a great point in favor of purereceive the consignments. The farbred hogs that they are more doctle mer that is fortunate enough to live than the others and less liable to run near a nursery can visit it while the about. The fencing of them is a comtrees are still in leaf and pick out the paratively easy matter where the ones he wants for planting. If any fencing of the others was a herculean of them, when delivered, are not what ask. This point should be of itself he bargained for, it will be much easisufficient reason for the farmer to pay | er for him to obtain new ones in time , little more money and get pure for planting than it would be in the breds when he has the choice of buy spring.

and these dunes became covered with

a growth little suited to them. It will

pay better to start upon them trees of

the kind that find sandy soil the best

ing them or of purchasing others of the mongrel sort with roving and rest Summer or Winter Apples. less proclivities. It is not a pleasant The question is sometimes raised thing to have hogs always breaking whether it is better to grow winter or out of the yards and pastures and havsummer apples. The answering of lug to hunt them up in the highway or that must depend on the market for the neighbors' vegetable garden. Thez their disposal. It is generally regard the common sorts are hard to drive ed as a had policy to plant largely of and it is no easy matter to return summer apples, because they must be them to their pens and yards once they have broken out. The quieter are numerous other farmers that have disposed of in a hurry, and if there animals are more valuable for food, summer apples it makes it necessary as their muscles are tenderer. More for them to all be put into the market over the quiet ones make better use at practically the same time. They of their food and will make more cannot generally be kept well in cold pounds of gain per hundred pound of storage. The farmer that intends to feed than the others. The breeders of grow summer apples must be able to pure bred swine are constantly select- look far ahead and determine for him ing though unconsciously, in the distance will be the state of the rection of greater docility and tract- market in his vicinity when his sumability. The interests of the breaders mer apple trees come into bearing of pure bred swine and of the farmers Most of us cannot do that with sufficient certainty to make it sale to do extensive planting. With the winter apple it is different. It has almost Most of our agricultural associa a world for its market. It can be tions are conducted on a high moral kept in storage for half a year, and in plane and the more this is the case some cases can be kept even longer the easier will it be to make them of it can be shipped and reshipped. tective in the performance of the packed and repacked. The summer work they are organized to do. The apple will not stand much bandling cairy association, the association on Here and there men have a market creamery managers, the association for summer apples if they produce of creatnery buttermakers, and what them, but the market is not so good seer the name of the association may as it is in the winter. The summer to, will do well to see to it that a war apple has the late peach and the is made on every form of dishonest grape with which to compete as well tealing. Dishemest practices can be as the banana. The winter apple has revented almost entirely when aure only the banana and the orange, and fations of the kind named take a the latter can hardly be called a comarm stand in regard to them, so far politur on account of its high price as those practices are found among and often indifferent quality. As a their own members. There is noth safe proposition we would say put in ing so potent as public opinion, and the winter varieties for a commercial

> Sweet cream butter is coming much geto use in this country. This kind of herter is not made, as might be supposed from the name, from cream from sweet with but is generally made of rinesed cream. It is raised

NATHAN SELLS IT FOR LESS.

Grain and Hay. Quotations for carroad lots delivered tracks Beaumost or other points taking same rates. Dealers charge from store 5@10c per 10 pounds more on bran, 2@3c per bushet on oats and

corn, 10@15c per 100 on bay. Oats—Texas, 50@55c; No. 1 mixed, 49c; white, 51@53a. Bran—Per 100 lbs. \$1.05@1.10. Corn hops—Pure \$1.25@1.30.

Oats-Texas 48@45c.

Hay—Choice alfalfa, \$15.00; choice of timothy, \$17.00; South Texas prairie, \$7.50@8.50; Johnson grass, \$9.50@

Feed products very stiff, with advancing tendency.

Market barely steady, with a declin-

Dry flint kips, under 16 pounds, 10 Dry salt hides, over 18 pounds, 10c;

under 18 pounds, 3c. W. S. hides, 6 1-2@7c. Sheep pelts, 15 to 40c. Goat skins, 10 to 15c. Horse hair 15 to 18c. Wool, free spring, 12 1-2 to 16c. Wool, free fall, 10c. Wool, hard burry, 8c.

Butter and Chees Butter—Blue Star, 25: dairy butter 18a20: Elgin, 26a27; Bernice Fancy Creamery, 28: Meadow Gold, 30; Fancy renovated creamery, 23a24.
Allison's Pure pasteurized cream

Cheese-Full cream flats, 14; daisies 14; prints, 15; full cream Longhorns,

Flour and Breadsturfe.

Flour-Basis 48.15 sacks. Fancy the earth bears trees suitable to a high pitent \$5.60; fancy half patent \$5.30; third grade \$4.50; 241b sacks 10 per barrel higher: flour in wood, 30 per parrel higherear lots 10c less. Farinaceous Goods-Grits. hominy and cream meal, in 40-lb sacks, per sack, 75 pearl meal in 35-lb sacks, \$1 95 per barrel of four sacks; Scotch outs \$2.95a3.00: Friends' outs \$2.95a 3.00 Columbia outs. \$2.85: Hawkeye was covered in all directions with oats, 2.85; Hecker's buckwheat, 14-lb packages, \$4.80. pine? The natural thing happened,

Crackers-A B C soda bulk, boxes, 7. 1-lb cartons, per dozen.100; ginger snaps, 7½; creams, 8, stage planks, 6½ cakes and jumbles. 11

Canned Goods. California Extra Standard (21-11 tins)—Black cherries, \$2.25; white cherries, \$2.25; Y. C. peaches, \$1.75; L. C. peaches \$1.85; apricots, \$1.60; Bartlett pears \$1.85; grapes, \$1.50; standard, 10 per dozen less.

Eastern Canned Goods and Vege-tables—No. 3 apples, 85: sliced pineapples, \$1; E. and C. pineapples, \$1.60; ex grated pineapples, \$1.75: pineapple chunks, 1-lb cans, \$1.35. pineapple chunks, 1\(\frac{1}{2}\)-lb cans, \$1.60: Singapore ex-grated pineapples, \$1.85; 2-lb pears 75; 2-lb strawber ies. 90; 2-lb black erries, 85; 2-lb peaches, none; 2-lb full-weight tomatoes, 75a80: 3-lb full weight tomatoes, 1.00; 2-lb light-weight tomatoes, 80a85: 3-lb light-weight, 95: 3-lb kraut 1.25; 2-lb Petit Pors ex sifted June peas, 1.60; 2-lb standard Marrow fat pras, 1.00: 2-lb light-weight Mar

Druge and Chemicals.

Quinine, 34a40c per ounce morphine, 2.35a260 per ounce: cocain 4.25 per oz: borax 9-10c per pound in 100-lb packages: copperas 2.00 in barrels: castor oil, 1.20 per gallon in 5 gallon packages: epsom salts, 2.25 per 100 lbs, in barrels: alcohol, 2.70a3.00 per gallon: sulphur, 3.25 per 100 lbs, in barrels; alum 34c per 1b, in barrels; calcium carbide, 4.00 per 100 lbs; saltneter, 7c b ir barris

Canned Molasses. Georgia Cane: gallons, 3.10, half gallons, 3.50, quarts 3.75: Cero de Batterie, gallons, 3.10, half gal. 3.50 quarts 3.75: Kairomel Syrup, 10 lbs.

Dried Fruits and Nuts. 16 oz. cleaned currents, 36 in case per lb. 84: 12 oz cleaned currents, 48 in case, per lb. 74; 3 Crown Smyrna Imported figs, 10-lb boxes, per pound, 124 6 Crown Smyrna imported figs, 10 lb. boxes, per lb. 15; 2 crown Califor-nia figs, 1-lb bricks, 10 lb boxes, per box, 1.15; 3 crown California figs, 1-lb box, I.15; 3 crown California figs, cartons, 10-lb boxes, per lb, 1.25: 12 oz packages seeded raisins, 45 in case per pkg, 9; 10 oz packages seeded raisins, 36 in case, per package, 84; 2 crown L. L. raisins, 20 lb boxes, per box, 2.00: 3 crown L. L. Raisins, 20-lb boxes, per box, 2.15; 2 crown L. L. FUEL OIL, boxes, per box, 2.15; 2 crown L. L. raisins, 5-lb boxes, per box, 70: Amer Corsican citron, 10-lb boxes, per lb, 16: Amer. orange peel, 10 lb boxes, per Ib, 14; Amer. lemon peel, 10 lb boxes, per lb. 14; No. 1 California almonds,

Pecans-8al2 per lb.

Miscellaneove Rope-Sisal, 7-16 basis 94, Manlla otton, XXX, 14 3-4. Salt-Rock, 9.09 per ton; Louisiana 85; Texas and Kansas, per bbl. 60-5s, \$2-60; 100-3s, \$2.75; 140-2, \$2.85 Pickles—Pinta, 95; quarts, \$1.65 t; allon, \$3.25; I-gallon, \$4; 5-gallon acgs, \$2: 10-gallon legs, \$3.50; Cross nd Blackwell's pints, \$3.65. Candy-Stick, wrapped, standard 64a7; fancy mixed, in pails. 64a9; fancy in cases. [1a18] ron 11a12. Staren—Pearl, 40-lb soxes, 4: gloss

ilk, 4‡; Nickel, \$3.00; 1 to 3 pound packages, babi-Molasses - Centrifogal, fair, 23; rime, 26a28; choice 23a30.

Doubled Up on Work. The tate Wilhelm Jordan used to claim that his ability to write as easity with the left hand as the right was one of the reguents why he was able

and Journalistic work. Old Fashion Best. A Massachusetts man was fined the other day for kicking a cut. This scould make it appear that the old boutbok is still the best weapon with

which to get even with a feline of

to do such a vast amount of Everary

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