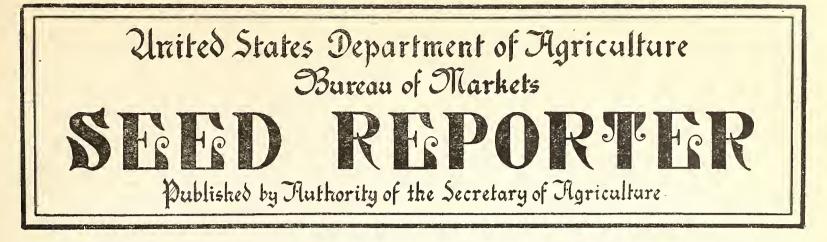


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Washington, D. C.

MAY 10, 1919

Vol. 2, No. 11

ANNOUNCEMENT.

ANNOUNCEMENT. In accordance with the provisions contained in section 2, of an Act of Congress (Public No. 40, 65th Congress), approved August 10, 1917, the Chlef of the Bureau of Markets of the United States Department of Agriculture, has been authorized and instructed as an agent of the Secretary of Agriculture, to take such steps as may be necessary to obtain authoritative information regarding the matters authorized to be investigated under that section. The Seed Reporting Service has been established pursuant to sections 2 and 8, of the Act, to obtain such information con-cerning seeds, as may seem necessary or desirable. The Seed Reporter Is printed at, and mailed from, Chicago. The regular monthly issue is mailed usually on the first Satur-day after the fourth of the month. Persons or concerns wishing to receive it regularly as issued should send name and address to the Seed Reporting Service, Bureau of Markets, U. S. Depart-ment of Agriculture, Washington, D. C. A copy of the current issue will be furnished on application to the field office of the Seed Reporting Service, 59 Board of Trade Building, Chicago, 11, to anyone after, but not before, nine o'clock of the morning of the first business day following date of mailing. CHARLES J. BRAND, Chief, Bureau of Markets. W. A. WHEELER, in Charge, Seed Reporting Service.

MISSOURI VALLEY MARKET NOTES.

MISSOURI VALLEY MARKET NOTES.
The spring demand for field seeds in the Missouri Valley is about over except for the forage varieties, and most dealers think that the demand for millet and cane seed will be larger than in any recent year. The shortage of hay and rough forage has resulted in current prices of \$39 to \$41 per ton for choice prairie hay and \$37 to \$41 for standard to choice alfalfa hay. Many farmers have had to purchase hay at these prices, and it is the opinion of the larger seedsmen that this will have a tendency towards inducing farmers to increase their acreage of forage crops this year. Consequently these seedsmen believe that the present large demand for seeds of forage crops will continue for a month or two longer, as, with favorable weather, it is possible to produce considerable forage on the wheat stubble.
Red Clover.—The brisk demand during the seeding season practically exhausted the small stocks of red clover seed held in this division.
Alske Clover.—The stocks of alsike clover seed has been especially good this year. The stocks on hand are fair to small, and the movement now is at \$24 to \$26 per 100 pounds.
Alfalfa.—The demand for alfalfa seed this spring has been large. The better grades are practically exhausted, and orders for these grades are cleaning them. The fancy seed is quoted at \$24 to \$25 per 100 pounds.
The foror alfalfa seed this spring has been large. The better grades are practically exhausted, and orders for these grades are cleaning them. The fancy seed is quoted at \$24 to \$25 per 100 pounds. The poorer grades which were passed up earlier in the season ar practically the only ones that are being offered from the country. As the fail demand begins in August, provision is usually made by the large seedsmen to be prepared to care for it from the stock on hand at this time of the year, rather than to rely on the new crop. Some of the seedsmen believe there is still considerable alfalfa seed in some parts of the country.

\$3.25; orange trom \$3.50 to \$4; and sumac from \$4 to \$5, all per 100 pounds. Kafir,—The demand for white kafir is good and the stocks on the whole are reported to be of fair size. Seed Corn.—Corn planting has been rather generally delayed because of the continued heavy precipitation. The larger seedsmen apparently have ample stocks of good quality. Prices range from \$2.50 to \$3 per bushel.

NORTH ATLANTIC DIVISION MARKET NOTES. The good demand for most of the field seeds that was noted in the North Atlantic Division a month ago has continued during the past few weeks. Stocks of alsike clover are exhausted and those of red clover are extremely small. The demand for these two kinds of clover is not over and is expected to continue until the middle of May. The sales of timothy seed have been somewhat backward but rallied toward the close of April, when prices advanced 10 to 25 cents per 100 pounds. It is thought by the larger dealers that the export demand for timothy seed, which is expected within a few months, and the fall demand, will reduce greatly the stocks of this seed. The summaries of reports received from this Division concerning seeds of late-sown crops are given herewith.
Alfalfa.—The stocks of alfalfa seed held by the larger dealers are reported to be one-third to one-half those of last year. The quality is below the average. An unusually good demand earlier than usual has been enjoyed, and is expected to continue for a month or two. The better grades are being quoted at \$25 to \$26 per 100 pounds.
Sweet Clover.—Ordinarily not much attention is paid to sweet clover seed in the North Atlantic Division, but this spring an excellent demand has been reported by several dealers, which has depleted their stocks to 10 to 25 per cent below those of last year, but unless a better demand develops soon, they will be ample to take care of requirements. Goodquality seed is being offered at \$7.75 to \$9.00 per 100 pounds.
Millet.—Somewhat larger stocks of golden and smaller stocks of Japanese millet than were held at a corresponding time last year are now in the hands of jobbers. The demand for both of these varieties has been considerably better than that of last year, folden millet is being sold at \$5.70 to \$6.75 per 100 pounds and Japanese millet at \$6 to \$7.75 per 100 pounds.

Seed Corn.—Much smaller stocks of seed corn of good germination and appearance are being held by dealers than were held last year. A fair demand at prices ranging from \$2.25 to \$3.50 per bushel is reported.

ANNOUNCEMENT OF GENERAL SEED SURVEY JUNE 30, 1919. A general survey of commercial stocks, receipts, and exports of field and vegetable seeds will be made by the Seed Reporting Service of the Bureau of Markets on June 30, 1919. The inquiry will cover practically the same items and questions as the survey of June 30, 1918 (Form SRS-40).

A separate inquiry will be made of all commercial vegetable seed growers on June 30, 1919, to ascertain the total number of acres planted to each kind of vegetable seed crop, location of acreage by States and counties, and condition of each crop on June 30.

IMPORTS OF FORAGE PLANT SEEDS PERMITTED ENTRY INTO THE UNITED STATES.

Under the Seed Importation Act

Compiled by the Seed Laboratory of the Bureau of Plant Industry, United States Department of Agriculture.

	Month c	f April,	4 Mos. endi	ng Apr. 30,
Kind of Seed.	1919.	1918.	1919.	1918.
	Pounds.	Pounds.	Pounds.	Pounds.
Alfalfa	700	19,500	34,200	19,600
Bluegrass: Canada Kentucky Clover:	105,400	324,000 800	259,400	963,600 800
Alsike		257,700	3,266,000	2,214,900
Crimson Red White		135,300	44,000 754,900	234,800 150,800 1,700
Clover mixtures: White and Alsike Alsike and Timothy Millet:	7,500	29,400	16,800 360,500	5 0,60 0
Hungarian			124,800	531,500
Grass		5,600	100	5,60 0
Orchard Grass Rape Redtop		351,700	77,500 404,100 800	2,560,100
Ryegrass: English Italian Timothy		211,100 11,100 3,400	380,700 133,500 22,900	1,048,000 349,700 22,300
Vetch : Hairy Spring			49,600 250,900	27,000 55,500

OBSERVATIONS ON EUROPEAN SEED CONDITIONS

Under the title "Observations on European Seed Con-ditions" the issue of the Seed Reporter for April 5th gave data obtained by Dr. A. J. Pieters, in charge of Clover In-vestigations of the Bureau of Plant Industry, and Mr. W. A. Wheeler, in charge of Seed Marketing Investigations and the Seed Reporting Service of the Bureau of Markets, during January and February in Great Britain, France, and Italy. Some of the information obtained by Dr. Pieters in Holland Belgium and northern Italy during March after Holland, Belgium, and northern Italy during March, after the return of Mr. Wheeler to this country, is given here with some general notes on European seed conditions. The data from Denmark were taken from an address by Director Sorensen of the Danish Seed Growers' Association, a copy of which was received by the Seed Reporting Service. Holland. Holland has a well-known and long-estab-

lished industry in the growing of vegetable and fong-estab-seeds. Many kinds and varieties are produced, but more especially cabbage, cauliflower, beet, turnip, radish, kale, kohl-rabi, onion, parsnip, and spinach. Enkhuizen in north Holland and Scheemda in Groningen are two important centers of the industry. At the present time all of the lead-ing growers have considerable surpluses of cabbage, cauli-flower, beet, and large quantities of spinach and carrot. flower, beet, and large quantities of spinach and carrot. Peas are produced in sufficient quantity for domestic trade. The reported acreage of three of the vegetable seed crops in Holland for 1915 is as follows: Onion, 217 acres; spinach,

In fioliand for 1915 is as follows: Onion, 217 acres; spinach, 1,815 acres; and radish, 534 acres. All of the growers look forward to a resumption of normal business, but believe it may be two years before conditions are quite normal. In some lines the acreage planted will be less than usual. Carrot, beet, and spinach are in such large supply that a reduced output for 1919 is expected. Prices probably will remain high for some time as labor and most other expenses have increased 100 per cent or more. 100 per cent or more.

From the table of exports and imports furnished by Mr. Edwards, Commercial Attaché to the American Lega-tion at The Hague, it was noted that in 1913, a prewar year vegetable and flower seeds were imported from thirteen countries, the largest quantities coming from the Black Sea Region and from Prussia, while exports were made to fifteen countries, the largest being to Prussia and the United States. The total excess of exports in 1913 (2,857,998 pounds) give some measure of the production in Holland. In 1914, the excess of exports was increased to 5,235,523 pounds, the United States and Prussia being again the largest customers while by for the largest part of the imports came from Prus while by far the largest part of the imports came from Prus-sia and the Black Sea Region. In 1915, the first full year of the war-period, the imports fell to less than one-half of those of 1914, but the exports increased to an excess of 6,756,607 pounds, and two-thirds of all exports went to Prussia.

Dutch consumers are said to use American red clover seed only when the crop is wanted exclusively for green manuring. The hairy character of the plant makes it un-popular for hay. For the latter purpose, seed of domestic production is preferred, after that English seed, seed from north France, or Bohemian seed. The annual requirements are said by the Wageningen Station to be about 1,100,000 to 1,300,000 pounds, and the home production is estimated at about 264,000 pounds, making it necessary to import about a million pounds annually. The figures furnished by

about a million pounds annually. The figures furnished by Mr. Edwards show that the average annual excess of im-ports over exports of red clover for the years 1913-1915 was approximately 1,450,000 pounds. For 1913, 1914, and 1915 the imports of clover seed came largely from France, Great Britain, and Germany, while the exports went chiefly to the United States and Prussia, though in 1915 much more went to Great Britain than to the United States and a considerable business was done in the three years with Belgium in both imports and exports. In all these years the largest total volume of busiexports. In all these years the largest total volume of business was with Germany and it is said that most of the clover seed imports merely represent seeds in transit.

The domestic consumption of grass seed of American origin is extremely limited. Timothy and orchard grass are used only to a limited extent. The grass most used is rye grass. The Westerwoldsche variety is highly regarded and most of the seed is produced in Groningen. Both exports and imports of grass seed reach a considerable volume but apparently these are largely seeds in transit. In the three-year period, 1913 to 1915, considerably more than half the imports came from Great Britain and Ireland and some of these may have been grown in the United States. More than half of the exports went to Prussia.

The Netherlands lie on the natural trade route to Ger-many and to the Rhine country. So far as the domestic

consumption of field seeds is concerned, there probably never will be any great demand for seeds of American production, both because of the small size of the country and because other than American grasses and clovers are preferred by the farmers. As an avenue for the trade with Germany, however, the Netherlands are important and the dealers there realize fully the opportunities that lie open to them. The dealers in the Netherlands, who presumably have had the best means for keeping informed regarding the seed supplies of Germany, are of the opinion that stocks are very low and they are looking forward to doing a large business as soon as trade is thrown open. This is also the opinion of the dealers in France and Italy.

SEED IMPORTS AND EXPORTS OF HOLLAND*

Compiled from figures furnished by Mr. Paul Edwards, Commercial Attaché to the American Legation at The Hague.

Countries.	1913.	1914.	1915.
Veget	able and Flow	er Seed	
Internet of form	Pounds.	Pounds.	Pounds.
Imported from United States Prussia Belgium Black Sea Roumania Other Countries	80,404 743,715 352,548 1,369,225 313,764 268,220	8,314 1,443,961 190,518 880,132 11,000 273,299	31,662 506,458 13,900 643,792
Total	3,127,876	2,807,224	1,195,812
Exported to United States Prussia Belgium Other Countries	1,630,803 3,000,606 808,550 545,915	3.733,112 3,108,391 308,264 892,980	1,518,629 4,867,524 435,334 1,130,932
Total	5,985,874	8,042,747	7,952,419
· · · · · · · · · · · · · · · · · · ·	Clover Seed		
Imported from	Pounds.	Pounds.	Pounds.
France Prussia Hamburg Great Britain	1,288,760 960,027 866,983 577,366	1,953.332 1,126,996 344,159 1,755,943	849,094 1,402,592 1,341,470
Belgium Other Countries	539,616 272,582	528,889 154,689	3,344 46,341
• Total	4,505,334	5,864,008	3,642,841
Exported to United States Prussia Belgium Great Britain Other Countries	1,786,030 1,179,099 151,571 97,717 109,125	1,792,507 1,547,135 262,808 49,768 180,941	137,056 1,154,085 312,376 840,686 57,547
Total	3,323,542	3,833,159	2,501,750
	Grass Seed		
Turnented from	Pounds.	Pounds.	Pounds
Imported from United States Great Britain Ireland Prussia Hamburg Other Countries	953,066 2,860,365 1,781,320 2,225,971 587,651 617,681	730,627 4,750,836 1,070,036 1,895,885 811,635 371,958	220,290 2,151,246 562,760 460,425 7 3,704
Total	9,026,054	9,630,977	3,468,425
Exported to United States Prussia Great Britain Belgium Other Countries	1,405,633 5,295,338 1,103,208 547,294 456,709	798,261 6,105,209 716,817 427,161 316,162	249,557 1,674.849 357.722 95,704 42,931
Total	8,808,182	8,363,610	2,420,763
*It is reported that the	here were no	imports or ex-	ports of seeds

Total8,808,1828,363,6102,420,763*It is reported that there were no imports or exports of seeds
during 1916, 1917, and 1918.Belgium. The supply of seed oats, red clover seed, and
grass seed is short in Belgium this spring. Some of these
seeds could have been supplied from America if a request
for such supplies had been made last fall. It is, of course,
too late to export any American seed to Belgium for the
current season. Belgium live stock, however, will not
suffer because it has decreased to such an extent that
there is plenty of old pasture for the remaining animals
for the next year at least. Efforts are being made to
establish an organized vegetable seed-growing industry
in Belgium. The Director of Horticulture for Belgium ex-
pressed the hope that his country would be made self-sup-
porting in the matter of seed supplies. The supplies of
vegetable seed available at present are said to be ample
in nost cases for the use of Belgium this year. If any
scarcity occurs the seed probably can be supplied from the
large stocks in France and Holland.
The following table gives some estimates made by Mr.

Van Orshoven, Director of Horticulture in the Department of Agriculture for Belgium, from prewar data on total acreage grown to each crop in Belgium, and normal seeding per acre:

ESTIMATED TOTAL NORMAL SEED REQUIREMENTS OF BELGIUM.

Farm Seed	s.	Vegetable Seeds.				
Kind	Pounds	Kind	Pounds			
Wheat Rye Oats Barley (winter) Barley (spring) Potatoes Flax Sugar beet Mangel Clover Lucerne Grasses Chicory Beans (field) Spelt Buckwheat Field peas Sainfoin Carrots (field) Turnips (field)	$\begin{array}{c} 55,000,000\\ 83,000,000\\ 100,000,000\\ 11,000,000\\ 4,500,000\\ 500,000,000\\ 2,000,000\\ 2,000,000\\ 1,100,000\\ 4,000,000\\ 2,700,000\\ 2,700,000\\ 2,25,000\\ 2,25,000\\ 2,25,000\\ 550,000\\ 550,000 \end{array}$	Garden peas French bcans Broad beans Parsnip Scorzonera Onion Leeks Calbage (all kinds) Lettuce Spinach Radish Chervil Corn salad	$\begin{array}{c} 3,400,000\\ 2,200,000\\ 220,000\\ 45,000\\ 9,000\\ 22,000\\ 67,000\\ 9,000\\ 1,000\\ 1,000\\ 16,000\\ 6,500\\ 2,200\\ 34,000\\ 6,500\\ 2,200\end{array}$			

Denmark. The present large supplies and the apparent over-production of many items have been brought about by over-production of many items have been brought about by war conditions, which made necessary an increased produc-tion of seeds. At present there are large supplies of several items. There is a large stock of mangel seed on hand which may be kept for some time if necessary, because of its good quality and strong germination. The acreage of man-gels for seed has increased from about 3,200 acres in 1912 to 4,900 acres for the present season. Mr. Sorensen advises that a reduction of 25 per cent in present acreage be made until the surplus has been disposed of. Because of the sur-plus the prices have dropped, and it is feared by Mr. Sorenplus the prices have dropped, and it is feared by Mr. Soren-sen that they may become too low to make production profitable. In the cultivation of rutabaga seed before the war about 1,600 acres were used; in 1918 this number was increased to about 5,500 acres, while this year over 11,300 acres are being grown. To supply the Danish consumption of rutabaga seed requires approximately only 1,500 acres. Before the war the small surplus that was produced was exported principally to Sweden.

The acreage devoted to growing turnip seed has in-creased from about 2,200 acres in 1912 to 7,000 acres last year, and 24,000 acres this year. For Danish consumption only about 750 acres are required. The prewar acreage of turnips was devoted almost entirely to the yellow-flesh turnips was devoted almost entirely to the yellow-flesh varieties, while this year some of the white-flesh varieties of English turnip which are in so much demand for export are being grown. The past season Denmark had a surplus of over 3,000,000 pounds of rutabaga, and about 5,500,000 pounds of turnip. Part of this has been sold to forcign countries, but there is still a very large surplus remaining with no prospect of selling during this season, as it is generally believed that Germany will not be able to use much. The Danish growers are advised by Director Soren-sen to plow up fields which do not promise a good harvest. sen to plow up fields which do not promise a good harvest, or which have been planted to the poorer kinds or strains

Of carrot seed about 1,500 acres were grown in 1917, while for the current year nearly 6,000 acres have been reserved. There is also a large stock of field carrot on hand, but not much of garden carrot. It is thought that it will be difficult to dispose of the surplus, and reduction of the area to this crop is recommended. There are also surpluses of radish and spinach, but not a large surplus of white cabbage secd. Indications are that larger areas are planted to cabbage this season so that a surplus is anticipated.

Apparently there is not a great over-production of grass or clover seed. The area in clover for seed has increased from 1,650 to 3,500 acres, but as Dcnmark requires approximately 5,000 acres to produce the seed required for home consumption, there is no danger of over-production. The area of meadow fescue has been increased from 3,000 to nearly 5,000 acres, but as there is a large demand for all of this area of over sport there is no danger of over produc of this seed for export there is no danger of over-produc-tion. Not much ryc grass was cultivated before the war, tion. Not much ryc grass was cultivated before the war, but this year there are approximately 5,900 acres of the English or common rye grass grown for seed, and 8,300 acres of Italian rye grass. The war has encouraged the production of rye grass seed and a lively demand is expected from Germany for the English rye grass. It is feared that there is danger of over-production of Italian rye grass, because only about one-third can be used locally, and there is a limited demand. There may be a demand for it in Germany when conditions become normal, but it is it in Germany when conditions become normal, but it is

advised that the area of Italian rye grass be reduced instead of increased.

Mr. Sorensen recommends to the Danish growers that the reduction of acreage of all crops where there is likely to be a great surplus this year be accomplished by plowing up the poorest stocks. He cautions growers against ex-

up the poorest stocks. He cautions growers against ex-porting seed that is not good, as it is a poor advertisement and will react on the market for Danish seed in the future. **Northern Italy.** So far as the seed trade is concerned, the interest in northern Italy is centered on field seeds. Red clover seed and alfalfa seed are largely produced in the area south of the Po and north of Rome except on the wort coast where olives and vinewards, replace ordinary west coast where olives and vineyards replace ordinary farm crops. Bologna is the principal marketing and exporting center in Italy for red clover and alfalfa seed.

In the absence of accurate statistics dependence must be placed on the estimates of dealers as to the quantities of seed produced. These estimates were approximately in agreement and indicate that from 10,000,000 to 14,000,000 pounds of red clover seed and double that of alfalfa seed is a fair annual production. A crop of 16,000,000 pounds of red clover seed would be considered a large one. In 1918 the production fell to about 6,0000,000 pounds. Most of this seed is raised on small areas by small farmers and is very poorly cleaned. The fields are generally weedy and contain quantities of buckhorn as well as other weeds. The cleaning machinery used by some of the larger dealers is crude and inefficient, and there is some complaint by them that the United States Seed Importation Act fixes the standard of purity at too high a figure. A great deal of the Italian red clover and practically

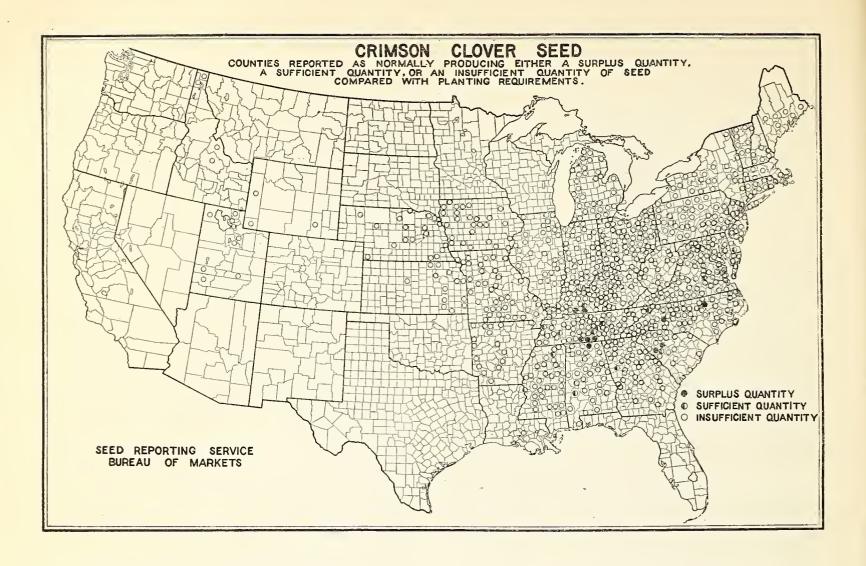
all of the export surplus of alfalfa seed finds its way into France and Austria-Hungary, and before 1914 the German firms bought freely. Italian dealers are now looking forward to a brisk trade as soon as peace is concluded for they claim to have information that the Austro-Hungarian seed market is bare and they expect to supply a large part of this demand.

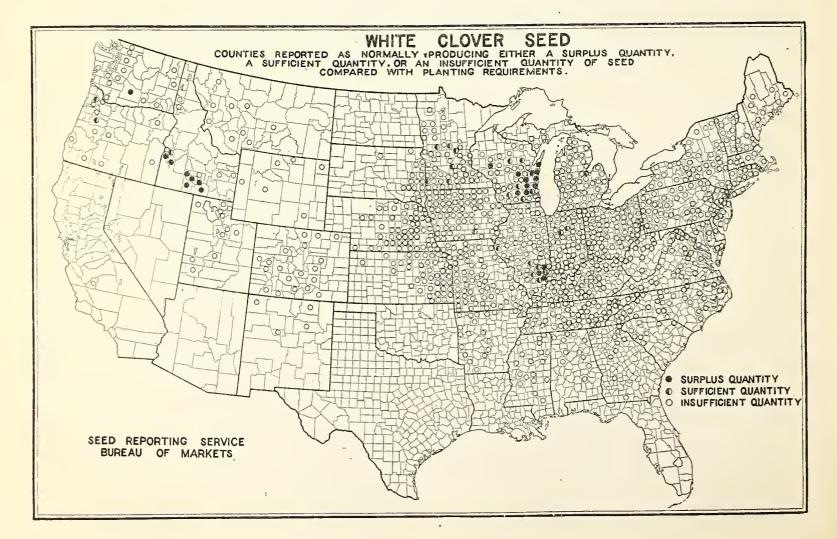
The high price of red clover seed in Italy this year combined with the high rate of freight would have made it impossible to export red clover seed to the United States during the past year even had there been no export prohibition. According to the records furnished by the American Consul in Florence, there were cleared through his office in 1916, 1,711,999 pounds red clover seed; in 1917, 172,842 pounds; and in 1918, 162,685.

Besides the seeds mentioned above, this section of Italy could export rye grass seed and hemp seed and possibly small quantities of Lotus corniculatus. Italian farmers make little use of cultivated grasses and there is no opening here for American trade. Most of the hay produced consists of wild grasses, rye grass, clover, or alfalfa, with sainfoin and sulla in south Italy.

Such grass seeds as are ordinarily imported, consisting of small quantities of Poas, Agrostis, Avena elatior, An-thoxanthum, timothy, Holcus lanatus, formerly were imported from Germany.

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EAST CENTRAL DIVISION MARKET NOTES.

DIVISION MARKET NOTES. Stocks of most field seeds in this Division were reduced to probably a minimum quan-tity for this season of the year. Higher prices accompanied the rapid reduction in stocks during April. Because of the open what earlier than last year. Prior to this, business was reported dull principally be-cause dealers in consuming sections were re-luctant to place orders early with seedsmen and large shippers in this Division as well as in the West Central Division. When it was apparent that prices were going higher in-stead of lower, however, a greater interest was to meet their requirements. Red Clover.—The red clover seed sowing scason in this Division is practically over at this time (May 1). Most seedsmen report that the domestic seed has been practically all sown, though a few dealers state that some stocks which were shipped to Europe, to-greturned. The carry-over may therefore not be quite so small as many have supposed it would be. In this connection it may be well to note that during the past month (April) 341,900 pounds of red clover were permitted only 135,300 pounds a year ago, and that the imports for March, 1919, were 411,400 pounds for March, 1918. Maise Clover.—The stocks of alsike clover seed were exhausted before the sowing de-

Alsike Clover.—The stocks of alsike clover seed were exhausted before the sowing de-mands had been met. Fairly large quantities of this seed were imported, chiefly from Can-ada, during the last two months and the carry-over of domestic seed will be negligible.

Sweet Clover.—An unusually good demand for sweet clover seed is reported. At the pres-ent time it is difficult to obtain high-grade seed, and even inferior sced is getting scarce. The price is holding firm at \$25 per 100 pounds.

Alfalfa.—Only a few dealers seem to have fair to good qualities of alfalfa seed on hand. Most of the sales for the past few weeks have been of the poorer grades. Prices have ad-vanced during the last 30 days fully \$3 per 100 pounds and the demand continues to be very good.

very good. Timothy.—The trading in timothy seed was reported fair to good during the past two weeks, when prices advanced somewhat. Though rather large stocks for this season of the year are being carried, some of those who are the principal holders of this seed seem to think that there will be a good domestic de-mand in the fall and that European countries will sooner or later need to import timothy seed from this country. Redton.—While the demand for redton has

seed from this country. Redtop.—While the demand for redtop has been nearly normal, the large surpluses which have accumulated during the last three years may result in another large carry-over this year. The price on redtop has held firm at about \$13,50 per 100 pounds. Kentucky Bluegrass.—The demand for Ken-tucky bluegrass was fully normal with the result that the small crop of last season was depleted. The present price asked for 21-pound seed is around \$23.50 per 100 pounds. Orchard Grass.—The stocks of orchard grass

Orchard Grass.—The stocks of orchard grass are light, but the spring demand is practically over. Some Danish and New Zealand seed has been offered at higher prices than those at which domestic seed has been selling. The early fall trade is expected to consume the small surplus of domestic seed.

small surplus of domestic seed.
Rape.—The stocks of rape seed on hand at this time are about equal to those of a normal year but are in the hands of comparatively few seedsmen, according to the reports received. Prices have made a few advances and declines during the sowing season. Good seed is quoted at this time at around \$9.25 per 100 pounds.
Seed Corn.—The demand for seed corn has been materially less this year than last principally because the 1918 crop of corn was of such excellent quality, making it unnecessary for dealers or growers to go any distance from their local territory to supply planting requirements.
Seed Grains.—An unusually good demand for seed wheat was reported Seed Grains.—An unusually good demand for seed wheat was reported by the larger dealers, but the demand for seed oats and seed barley was considerably less than that of last year.

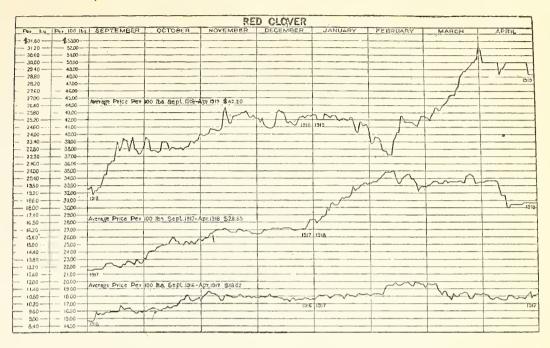
Canada Field Peas.—The market ou Canada field peas is dull, being practically unchanged from that of last month. Unless an export de-mand takes place this summer similar to that which occurred a year ago, the large carry-over will not be absorbed by the time the new crop comes on the market. At present these peas are being quoted at \$4.75 to \$5.50 per 100 pounds.

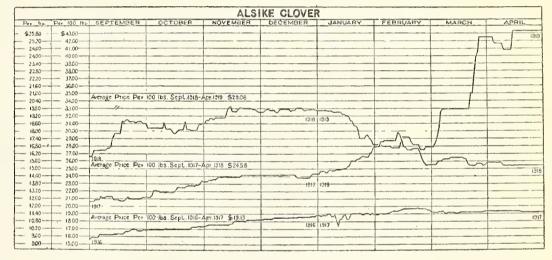
NORTH PACIFIC DIVISION MARKET NOTES.

The demand for most kinds of field seeds handled by dealers in the North Pacific Division has been very brisk since the middle of March, and is reported as being quite active at the end of April, although the period of heaviest demand is over. Reports indicate that there will be no carry-over seed with the exception of timothy seed and field peas. In general, all seed stocks have been of good quality, but at the present

DIAGRAMS SHOWING DAILY CLOSING CASH PRICES OF "PRIME" SEED OF RED AND ALSIKE CLOVER AND TIMOTHY ON THE TOLEDO MARKET FROM SEPTEMBER TO APRIL, INCLU-SIVE, FOR THREE SEASONS, 1916-17, 19171-8 AND 1918-19.

SEED REPORTER





	ТІМОТНУ										
Par bu	Per 100 lbs.	SEPTEMBER	OCTOBER	NOVEMBER	DEGEMBER	JANUARY	FEBRUARY	MARCH	APRIL		
¢\$\$\$\$					1						
		Average Price Per	100 lbs, Sept. 1918-A	pr.1313 \$10.93							
- 540	12.00			m	M				m		
- 485	1100				19:8	1919		hand	15		
450	10.00	1918				<u> </u>	hart				
- 4.05	3.00		100 lbs. Sept. 1917-A	pr.1918 \$ 8.46		\sim	m				
- 3.60-	800	1317			mm			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
315		W			1917	1318			I Ano		
	7.00	Average Price Per	100 lbs. Scpt. 1916-4	Dr. 1917 5564					ha.		
270	6.00							1	Y		
2.25	5/70	1546	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1916						

time poorer grades of seed wheat and alfalfa seed are being offered be-cause the better grades have been exhausted.

Red Clover.—Stocks of good quality red clover seed are very low out reported sufficient in most districts to meet the demands which continue active. The total spring trade in the seed-producing districts has been heavier than for the same period last year, but lighter in other districts. Alfalfa sced is being substituted to a limited extent.

Alsike Clover.—The stocks of alsike clover seed, for the most part, are sufficient to meet further demands. The demand and stocks for the sea-son have been lighter than last year.

Alfalfa.—The stocks of high-grade alfalfa seed in the irrigated sections appear to be about exhausted and insufficient to meet the demands which continue active. Other districts report sufficient supplies but no sur-plus. In general, the spring trade to date has exceeded that of last plus. year.

Timothy.—Timothy seed stocks are unquestionably sufficient for trade demands with an appreciable carry-over. The total demand this season is considered about equal to that for the same period last year.

Seed Grains.—The spring wheat sections report a shortage of good-quality seed wheat, and, where available, seed oats and barley are being substituted. Seed oats, however, are very short in many districts. The present demand for seed grains continues active, and exceeds the demand for the same period last year.

Field Peas.—A slow demand for field peas has existed through-out the spring season. The seed stocks in the seed-producing districts are reported as being more than ample for the trade requirements.

Vegetable Seed Crop Conditions.

CALIFORNIA.

CALIFORNIA The several seed growing districts in California have been subjected to a variety of climatic conditions this season. In many parts of the belta district and the Santa Clara Valley the seasonal rainfall has been above normal. Up to this time the season has been favorable for crops in general in these two districts. The heaviest precipitation occurred along the coast in Monterey found, where a considerable acreage of garden peas is grown. Further south along the coast in San Luis Obispo County the total rainfall to decondition. In Santa Barbara and Ventura counties and in southerm Cali-fornia the seasonal deficiency of moisture is more pronounced. Los Angeles County has received only half the normal rainfall. Herewith is given a table compiled from data published by the Weather Bureau which shows the rainfall and variations from normal rainfall at several important California points adjacent to the seed-grow-ing districts. The table gives the 1918, 1919, and the normal precipita-tion by months from October to April, inclusive, and the total of each to the seven-month period. Results of all investigations and reports received concur in indicating strat the production cost this year will be equal to and in many cases freater than that of any previous year. All bubb and root crops were grown last summer when labor was scarce and wages high. Many sound commodities were on the increase. There has been practically no decrease in operating cost since that time. The acreage of many varieties has been reduced over that of last year, while there is a marked increase in the acreage of some others. The proported by them, shows the following increases: Mangel beet, 67 per ent; future, 6 per cent; parsley, 59 per cent; parsnip, 19 per cent; protect by them, shows the following increases: Mangel beet, 67 per ent; entred be cent; parsley, 59 per cent; parsnip, 19 per cent; protect by them, shows the following increases: Mangel beet, 67 per ent; entred be cent; parsley, 59 per cent; parsnip, 19 per cent; protect by

when he has been and here the search of the

that for the past two years. Parsnip.—The acreage of parsnip is considerably larger than last year. The rainy weather retarded cultivation and produced an abundance of weeds. All fields that have been properly cared for, however, are look-

Garden Peas.—The acreage of garden peas will not be as large as last year because of the shortage of stock seed. The planting this season was done both early and late, because of the intervening rains. Many early-planted fields were washed out and could not be replaced. Aphis

was present in a number of fields for a short time and then disappeared. Present reports indicate that the fields are now in fair condition. Salsify.—The salsify seed acreage is somewhat larger than last year. However, the growers were very conservative in allocating acreage for this vegetable. All fields are reported in excellent condition. Spinach.—While it is difficult to make an authentic forecast at this early date, quite a number of the fields have been damaged by the rains and, with the decreased acreage, the growers now anticipate a production much less than that of last year. Tomato.—The planting in the fields has just begun and will continue through the month of May. In case sufficient demand develops in the near future to warrant a larger acreage it could be casily arranged for. There has been practically no loss from damping-off and the young plants, which are now growing in open-air beds, are hardening in excel-lent condition. The larger part of California's tomato seed is produced in southern California in the territory surrounding Santa Ana where there is an abundance of Artesian water, and the lack of the usual amount of rainfall in that section will have no bearing on the tomato crop.

NORTH PACIFIC DIVISION.

NORTH PACIFIC DIVISION. Contract growers in the Puget Sound seed-producing sections report that present crop conditions are very promising. In general, the mild winter was favorable for the wintering over of all root stocks for seed. Weather conditions so far this spring have also been favorable for the growing crops. Although the spring have also been favorable for the growing crops. Although the spring have also been favorable for the growing crops. Although the spring have also been favorable for the growing crops, although the spring have also been favorable for the growing crops, as the costs of labor and land values have not decreased. It is thought that the production of all vegetable-seed crops grown in this division will be about the same as last year, more in some instances and decidedly less with spinach and radish. The 1920 production will possibly be reduced still more on many items as very few contracts have been placed with the growers to date. Prices for 1920 are much lower on cabbage but contracts are very slow. With the present outlook for production and the added experience of the farmers in growing the seed, the contract growers feel rather confi-dent of the outcome for this year. Cabbage.—Prospects for a better crop of cabbage seed than has been obtained for some time are encouraging. It is reported that possibly there will be a surplus of a few varieties, but that other varieties will be short. Turnin —The condition of many of the turnin fields will not average

betained for some time are encouraging. It is reported that possibly there will be a surplus of a few varieties, but that other varieties will be short.
Turnip.—The condition of many of the turnip fields will not average over 50 per cent of normal, due to the dry fall of 1918. However, the acreage of turnip for seed is reported to be the largest ever grown, with special reference to the Sound Region.
Beet and Mangel—Many of the mother beets rotted in the pits during the time of the heavy rains in February and March, and this will reduce the acreage for seed production. One grower estimates this reduction at 60 per cent for his own plantings. The beets and mangels have all been transplanted and while it is too early to tell much about them, they are growing nicely.
Spinach.—The spinach acreage is greatly reduced over that of 1918, ranging from 15 to 50 per cent with different growers.
Kale.—In some sections, the kale is practically a total failure. The acreage in the Sound district is larger than last year.
Garden Peas.—Reports from the seed-pea section of southern Idaho indicate that seeding has not yet started, but that the outlook is very favorable for 1919 production. Farm work is well under way, and the growers are well equipped to handle their spring work. Ample snow in the mountains insures sufficient water for irrigation. The acreage secured for the production of garden peas tor seed in the Upper Snake River Valley this year is fully up to normal of approximately 30.000 acres. Contract growers in eastern Washington report that while the seeding season is later than last year, the soil is in much better condition and that the seeding is progressing rapidly. The acreage in this section for this year is considered equal to that of last year. Contract prices to the grower are most promising.
Reports from western Washington indicate that a larger acreage of garden peas will be planted for seed this year than last year. Seeding has been somewhat de

favorable.

favorable. Sugar Beet.—It is reported that the loss of mother bects did not exceed 10 per cent of the stocks reserved for seed production. Trans-planting of stecklings is well under way and will be completed about May 15. Present weather conditions are excellent but hand labor is reported as decidedly short. The estimated acreage planted for sugar-beet seed in Idaho this year shows an increase of about 43 per cent over that of 1918, totaling about 4,000 acres.

PRECIPITATION AT VARIOUS CALIFORNIA STATIONS.

	October,	November.	December,	January,	February,	March,	April,	Total for 7 months.
Station.	Normal for North North	1918. 1911. Normal for Month.	1918. 1917. NNormal for	Normal for Normal for Normal for	1919. Normal for Normal for	Normal for Normal for Normal for Normal for Normal for North.	NNormal for Normal for	bet. 1918, loct. 1919. Oct. 1917, Oct. 1918. Normal for 7 months.
San Francisco Sacramento Stockton San Jose Hollister San Luis Obispo. Santa Barbara Los Angeles Santa Ana	.17 .00 1.04 .40 T. 1.04 .27 .00 .70 .15 .00 .90 .20 .00 .70 .81 .09 1.33 .02 T. .86 T. .00 .77 .10 .00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccc} 9.31 & 5.79 & 3.70 \\ 6.29 & 3.36 & 3.14 \\ 4.91 & 2.88 & 2.35 \\ 4.87 & 2.63 & 2.54 \\ 3.68 & 3.56 & 1.99 \\ 5.48 & 9.63 & 3.58 \\ 1.95 & 10.47 & 3.46 \\ 1.02 & 6.14 & 2.91 \\ 1.38 & 1.99 & \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Note: Normal or average rainfall has been computed by the Weather Bureau from data extending over a period of years.

NOTES ON THE BERMUDA ONION SEED CROP.

California.—Owing to the unsatisfactory yield of Bermuda onion seed obtained during the past two years in the Coachella Valley, only a small acreage was planted for the 1919 harvest. The reported acreage for 1917 was approximately 90 acres, and for 1918 one hundred and forty acres, while for 1919 the acreage reported is less than 10 per cent of the average for the past two years. No other acreage outside of the Coachella Valley has been reported in this State. The shortage of onion bulbs at planting time and the uncertainty of obtaining a good yield in untried sections, also the loss caused by thrips and burn during the past two years in the Valley, are largely responsible for the reduced acreage. The small acreage now growing in the Coachella Valley is in good condition and present indications are that a fair yield will be obtained, but even though the yield on the few acres planted should be above nor-mal the quantity produced will be small.

Canary Islands.—According to the American Consul at Teneriffe, Canary Islands, in a report to the Department of State, dated March 6. 1919, fifty per cent of the onion-seed crop, nearly all of which had been contracted for by American buyers, has been destroyed by the most per-sistent drouth within the last 50 years. In 1917 and 1918 more than 90 per cent of the onion seed grown in the Canaries was exported to the United States. These exports were valued in 1917 at \$133,264 and in 1918 at \$99,036. There have been a number of complaints from American buyers that Canary Island onion seed failed to give satisfaction when kept from one season to another. As reported by the Consul, actual experiment in the Canary Islands seems to have proved that the Canary Island onion seed, if carefully stored in dry, dark, moisture-proof containers, will re-tain its viability for at least 12 months.

COMMERCIAL VEGETABLE SEED ACREAGE AND PRODUCTION.

A preliminary report of commercial acreage of vegetable seed crops for 1918 and prospective acreage for 1919, as obtained in the vegetable seed production survey (FORM SRS-81) of February 1, was published in the issue of the Seed Reporter for March 8. This preliminary report was made before all schedules had been received, and before much time could be given to editing and studying the sched-The table given herewith represents the final report ules. after a careful study of all schedules received and all adjustments made to prevent duplication. Column 3 gives the total estimated acreage of vegetable crops planted for seed purposes for 1919, which includes the acreage actually planted prior to February 1, and also the estimated acreage to be planted after that date. In the main this represents only the estimate as of February 1, though in a few cases later estimates were received and wherever these were different from the former estimates, they have been incorporated in this report. Some variations will be observed between these figures and the estimates given in the preliminary report, because of readjustments necessary after careful study and receipt of further data.

It is still too early in the season to make an intelligent estimate of commercial seed production for 1919 based upon vegetable seed crop conditions. However, a computation of prospective commercial seed production for 1919, based upon the estimated acreage for the year and the average yield of seed produced per acre for the past three years is of some value and interest and is presented here in column 5. The average yield of seed per acre for the past

column 5. The average yield of seed per acre for the past three years upon which this is based is given in column 4. Column 6 gives the actual reported commercial seed production for 1918. Some variations will be noted between this and the November estimates for 1918, which were re-ported in the issue of the Seed Reporter for December 7, 1918. At the time the commercial production was estimated in November many of the seed erops were not wet threshed in November, many of the seed crops were not yet threshed and it was impossible to obtain exact figures. Therefore, some decreases and some increases from those published in December will be noted in this column. The November estimates were larger than the reported actual production of dwarf snap beans, mangel beet, carrot, celery, cucumber, muskmelon, watermelon, parsnip, garden peas, pepper, pumpkin, summer squash, winter squash, sweet corn, and English turnip. They were lower than the actual reported production of garden pole beans, kale, onion, parsley, spin-

ach, and Swede turnip. Columns 7 and 8 give for comparison the reported acreage planted for seed in 1918, and the reported acreage actually harvested for seed the same year, and column gives the percentage of the acreage planted for seed that was not harvested for seed.

A survey of the total number of acres planted to each of the vegetable seed crops in 1919 and the location of such acreage will be made on June 30, and will be used in conjunction with information on crop conditions as a basis for making estimates during the season on the commercial seed production for 1919.

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a of some value and interest a	1	2	3	4	- 5	6	7	8	9
	Commerc	tial acreage 1919.	for seed,				Commerc	ial acreage 1918.	for seed,
Kind of Seed.	Planted up to Feb. 1, 1919.	Estimated to be planted after Feb. 1, 1919.	Total estimated acreage, 1919.	*Average yield of seed per acre for 3 years, 1916-18.	Prospective com- mercial seed pro- duction, <b>1919.</b>	Commercial seed production, 1918.	Planted for har- vest in 1918.	Actually harvest- ed for seed in 1918.	Percentage plant- ed acreage not harvested for seed.
	Acres.	Acres.	Acres.	Pounds.	Pounds.	Pounds.	Acres.	Acres.	Per cent.
Beans—Dwarf snap	10	51,481	51,491	291	14.984,000	29,215,515	72,831	65,539	10
Beans—Garden pole (not including Lima)	30	6,809	6,839	416	2,845,000	5,166,159	7,482	6,908	8
Beet—Garden	2,221	646	2,867	682	1,955,000	2,509,391	2,801	2,752	2
Beet—Mangel	683	190	873	967	844,000	286,974	424	348	2
Cabbage	2,040	102	2,142	265	568.000	161,629	1,383	379	72
Carrot	2,627	1,088	3,715	527	1,958,000	2,125,060	4,894	4,692	4
Celery	125	13	138	391	54,000	40,201	176	171	3
Cucumber	0	4,052	4,052	200	810,000	548,044	3,177	2,783	12
Kale	85	10	95	377	36,000	16,744	49	23	53
Lettuce Muskmelon Watermelon Onion seed Onion sets	1,868 0 6,137 15	642 -2,013 4,942 1,157 3,572	2,510 2,013 4,942 7,294 3,587	470 144 79 303 11,034	1,180,000 290,000 390,000 2,210,000 39,579,000	746,993 196,142 959,549 1,685.258 46,068,711	2,291 1,671 10,423 7,260 3,818	1,790 1,230 10,066 6,684 3,736	22 26 3 8 2
Parsley	228	45	273	640	175,000	72,553	155	123	20
Parsnip	265	83	348	624	217,000	167,199	267	236	12
Peas—Garden	6,926	91,375	98,301	578	56,818,000	58,127,258	102,095	92,436	9
Pepper	1	429	430	52	22,000	56,195	657	650	1
Pumpkin	0	1,247	1,247	87	108,000	132,612	1,380	980	29
Radish	3,585	6,855	10,440	224	2,339,000	1,935,047	8,760	7,856	10
Salsify	132	33	165	434	72,000	30,647	124	97	22
Spinach	1,185	723	1,908	324	618,000	1,650,008	4,259	3,059	28
Squash—Summer	0	1,070	1,070	133	142,000	99,404	1,004	636	37
Squash—Winter	0	2,258	2,258	66	149,000	128,385	2,534	1,541	39
Sweet corn	0	14,257	14,257	678	9,666,000	11,916,892	14,759	13,124	11
Tomato	0	3,002	3,002	83	249,000	307,815	3,832	3,748	2
Turnip—English	2,048	526	2,574	239	615,000	200,783	936	465	50
Turnip—Swede	638	129	767	300	230,000	27,312	279	69	75

*Inserted to show the yield basis on which the prospective commercial production, 1919, was computed.

#### CRIMSON CLOVER SEED OUTLOOK.

During the latter part of April an inquiry was made to ascertain the prospects for the crop of crimson clover seed this year. In view of the fact that very little crimson clover seed has been imported during the past six months and that the carry-over of seed in dealers' hands at the close of the sowing season last fall was less than that of a year ago, considerable interest is manifested in the domestic production of this seed this year seed this year.

Most of the reports from Franklin County, Tennessee, which probably produced more crimson clover seed last season than all the rest of the United States put together, indicate that more of the crop will be cut for seed this year than was cut last year because of the materially in-creased acreage that was sown last fall. All but a few correspondents report that the glants are thick on the ground, though one or two point out that the freeze during the latter part of April may reduce the yield per acre. Most of those reporting do not expect the yield per acre to exceed that of last year. It is thought that growers in Franklin County will begin to cut their crimson clover for seed about May 20th to 25th. Conflicting reports have been received from other counties in Tennes.

Will begin to cut their crimson clover for seed about May 20th to 25th. Conflicting reports have been received from other counties in Tennes-see. Some state that a larger acreage than last season will be cut for seed because the seed is expected to bring an attractive price, whereas others say that a smaller acreage will be cut for seed this ycar because a greater portion of the acreage will be turned under or cut for hay than last year. Though the stand of clover plants in these counties of Tennessee is reported to be thick, the yield per acre is hardly expected to be so good as that of last year.

Difference of opinion prevails in Delaware as to whether the acreage to be cut for seed this season will be more than that of last season. More correspondents seem inclined to conclude that it will be somewhat less because (1) dry weather last fall at sowing time had a deleterious

effect, (2) feed is so scarce and hay so high in price, and (3) growers reduced their acreage last fall because the crop sown the year before was so badly winterkilled during the winter of 1917-18. Practically all of the reports stated that the plants are thick on the ground but consid-erable doubt prevails as to whether the yield of seed per acre this year will be better than that of last year, which appears to have been good wherever it was not diminished by winterkilling. Growers in Delaware are planning to cut the crop for seed between the first and tenth of lune. June

are planning to cut the crop for seed between the first and tenth of June. Indications in Maryland are that more crimson clover will be cut for seed and also for hay than last year on account of the larger acreage this spring. During the winter of 1917-18 a large percentage of the acreage was winterkilled whereas very little winterkilling during the past winter is reported in this State or other States. Excellent stands are reported, which will be ready to be cut for seed the latter part of May or the first of June. The scattered reports from North and South Carolina indicate that less crimson clover will be cut for seed this year than last because of poorer stands. The readiness with which this seed was sold last fall may induce more of the growers than usual to strip or cut their crop for seed. It is thought that seed will be stripped the middle or latter part of May in North and South Carolina. More crimson clover is expected to be cut for seed in Virginia than last year because of the increased acreage. A fair to good stand which will be ready to be harvested for seed the latter part of May or the first of June is reported. Usually in Virginia, as in other States except in portions of Tennessee and Delaware, most of the crimson clover is very difficult to determine accurately a month in advance of the time of harvesting seed what percentage of the crop will be cut for seed.

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North and South Dakota. This crop to be silage. An increased demand for Canada field peas is reported by some deal-ers, but this does not appear to be general throughout this Division. Canada field peas are being quoted at from \$5.35 to \$6 per 100 pounds. Flax.—Seedsmen handling flax anticipate a heavy run on this com-modity. They report good stocks of good quality. Flax is being sold at \$4.25 to \$4.55 per bushel.

WHOLESALE AND RETAIL FIELD SEED SELLING PRICES, APRIL 30, 1919.

(All prices, except where noted, dollars per 100 pounds.)

In the table below are given the average wholesale and retail prices of field seeds for each of the divisions, as indicated. The same detailed explanations accompanying the table published in the April 5 issue of the Seed Reporter will apply to this table.

	North an Atlantic		Southe Divi	eastern slon.	East Divis		West O Divis		North Divis		North Divis	
KIND OF SEED.	Wholesale, Per 100 1bs.	Retail, Per 100 lbs.	Wholesale, Per 100 1bs.	Retail, Per 100 Ibs.	Wholesale, Per 100 lbs.	Retail, Per 100 · lbs.	Wholesale, Per 100 Ibs.	Retail, Per 100 1bs.	Wholesale, Per 100 lbs.	Retail, Per 100 Ibs.	Wholesale, Per 100 lbs.	Retail, Per 100 lbs.
Red clover Alsike clover Crimson clover Sweet clover Alfalfa Timothy	\$47.55 45.30 20.95 26.55 26.05 12.20	\$50.05 45.80 24.05 29.60 29.05 13.10	\$48.00 40.00 20.50 28.00 26.00	\$50.50 40.20 23.75 34.50 '27.00 12.15	\$46.65 39.50 21.00 25.10 24.60 11.30	\$46.75 39.75 23.50 28.25 27.10 12.50	\$47.25 39.00 21.40 24.90 23.85 11.25	\$48.50 41.25 23.25 29.35 24.05 11.75	\$49.25 41.00 26.25 25.75 11.50	\$50.75 43.50 28.25 27.55 12.50	\$46.00 38.00 30.50 24.85 11.60	\$46.40 38.65 32.50 26.25 14.75
Redtop Orchard grass Kentucky bluegrass Canada field peas Cowpeas Soy beans	$ \begin{array}{r} 15.35\\30.15\\25.15\\5.55\\6.55\\5.15\end{array} $	18.40 30.10 28.90 7.55 6.75 8.25	5.50 4.75	$     \begin{array}{r}       15.75 \\       30.20 \\       27.15 \\       5.25 \\       5.35 \\     \end{array} $	$ \begin{array}{r} 13.80 \\ 30.00 \\ 23.30 \\ 5.55 \\ 6.20 \\ 5.90 \\ \end{array} $	17.40 31.70 27.45 6.95 6.55 6.80	14.0029.5025.00 $6.906.156.00$	18.7532.2530.007.506.907.60	15.85 29.90 26.40 6.00 	18.85 31.40 28.50 6.85 	18.60 32.40 26.75 6.40	23.50 37.40 33.75 8.85
Spring vetch Winter vetch Golden millet Common millet Japanese millet Amber sorgo	5.90	9.85 22.35 6.75 6.00 7.55	20.50 6.80 4.60	21.85 7.00 6.35 6.65	7.60 18.70 5.95 3.95 5.20 4.45	14.00 20.00 6.85 7.50 5.80	21.50 5.50 3.60 5.00 3.25	5.75 4.25 5.65 4.60	$ \begin{array}{r} 11.10\\19.50\\5.55\\4.00\\6.00\\4.15\end{array} $	$ \begin{array}{r} 11.50\\21.25\\6.25\\4.85\\6.55\\5.85\end{array} $	9.85 23.15 8.40 7.85 8.40	$10.50 \\ 25.00 \\ 12.85 \\ 12.50 \\ 12.00$
Orange sorgo Kafir Sudan grass. Rape Cotton seed Seed potatoes		16.50 3.45	4.65 12.50 6.20 2.65	6.65 16.05 6.70 3.90	4.35 3.85 15.60 9.70  1.60	5.40 4.75 20.00 14.00 1.75	4.00 3.50 17.00 9.60  2.50	4.60 4.85 20.50 13.65 2.50	4.50 17.55 9.75 2.85	5.40 21.00 13.40 2.10	19.75 13.55 2.75	22.85 16.40 2.50
	Per bu.	, Per bu.	Per bu.	Per bu.	Per bu.	Per bu.	Per bu.	Per bu.	Per bu.	Per bu.	Per bu.	Per bu.
Seed corn Seed barley Seed buckwheat Seed oats Seed rye Seed wheat	\$2.75 1.75 2.10 1.00 2.45 3.15	\$3.50 2.05 2.85 1.25 2.75 3.15	\$2.95	\$3.85  1.25 3.20 3.10	\$2.90 1.40 2.00 .85 2.10 2.90	\$3.40 1.65 2.50 .90 1.90 2.65	\$2.75 1.55 2.10 .90 1.75	\$3.50 1.40 	\$3.50 1.25 1.85 .95 2.10	\$4.50 1.25 1.85 .95 2.10 2.75	\$4.40 2.50 1.40 2.75 2.85	\$5.00 1.85 1.25 2.75 2.55

#### VELVET BEAN VARIETY INFORMATION.

The information given in the following tables relative to velvet beans was obtained and compiled along with similar information on soy beans and cowpeas which was published in the April 5 issue of the Seed Re-porter. The same detailed explanations accompanying the tables pub-lished at that time will apply to those given below.

Average percentage of the total quantity normally handled by wholesale and retail seedsmen that is of each of the varieties indicated.

VELVET BEANS								
STATE	Florida (Late Speckled)	Georgia (Early Speckled)	Chinese	Osceola	All other varieties			
	- %	%	%	%	%			
Alabama Arkansas Florida Georgia Louisiana Maryland	5 12 x	90 99 80 90 86 95	1 5 1 2	3 2 7 12 5	1 1 1 2			
Mississippi North Carolina South Carolina Tennessee Texas Virginia	53 10	60 47 89 70 78 88	2 1	40 9 25 12 12				
United States	3	87	1	9				

Average percentage of the total quantity normally shipped out from producing sections by local shippers that is of each of the varieties indicated.

#### VELVET BEANS

State.	Florida (Late Speckled)	Georgia (Early Speckled)	Chinese	Osceola	All other varieties
	%	%	%	%	%
Alabama Arkansas Florida Georgia Louisiana	6 6 x x	75 100 26 91 80	2 1 x	16 67 7 19	1 2 1
Mississippi North Carolina South Carolina Tennessee Texas	4	95 96 100 90 100	· · · · · · · · · · · · · · · · · · ·	5 10	
United States	3	80	1	15.5	.5

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