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# Disco

ANNOUNCEMENT  
FOR 1914



*Dakota Improved Seed Co.  
Mitchell, So. Dak.*

# A Big Garden For One Dollar

## OUR GREAT PROOF OFFER

30 Choice Varieties of DISCO Guaranteed Seeds—\$2.00 Worth for Only \$1.00

### Wheeler's Model Garden Collection

Use Order Blank on Page 7 When Ordering

1/8 pint Beans, one of the best wax-podded bush varieties	.10	1/8 pint Sweet Corn, Golden Bantam	.10
1 pkt. Beet, Crimson Globe or Crosby's Egyptian	.05	1 pkt. Parsley, Extra Moss Curled	.05
1 pkt. Cabbage Eureka, Early Jersey Wakefield or Charleston Wakefield	.05	1 pkt. Parsnip, Hollow Crown or Improved Guernsey	.05
1 pkt. Cabbage, Danish ball head or Hollander	.05	1/8 pint Peas, one of the best early varieties	.15
1 pkt. Carrot, Oxheart or Chantenay	.05	1 pkt. Pepper, Ruby King or Bull Nose	.05
1 pkt. Celery, Golden Self-Blanching or White Plume	.05	1 pkt. Pumpkin, Small Sugar or Pie	.05
1 pkt. Cucumber, Improved Early White Spine	.05	1 pkt. Radish, Rosy Gem or French Breakfast	.05
1 pkt. Lettuce, California Cream Butter	.05	1 pkt. Radish, White Icicle	.05
1 pkt. Lettuce, Prizehead or Morse	.05	1 pkt. Rutabaga, Purple Top Yellow	.05
1 pkt. Muskmelon, Rocky Ford or Burrell's Gem	.05	1 pkt. Squash, Improved Hubbard or Golden Hubbard	.05
1 pkt. Watermelon, Fordhook Early or Kleckley's Sweet	.05	1 pkt. Tomato, Thornber or Early June	.15
1 pkt. Onion, Large Red Globe or Large Red Wethersfield	.05	1 pkt. Tomato, Yakima or Dakota Farmer	.10
1 pkt. Onion, Prizetaker or Yellow Globe Danvers	.05	1 pkt. Turnip, Purple Top Strap Leaf	.05
		1 pkt. Four O'clock, Mixed Colors	.05
		1 pkt. Nasturtium, Finest Dwarf Mixed	.05
		1 pkt. Pansy, Disco Mixture	.10
		1 pkt. Portulaca, Mixed Colors	.05
		1/8 oz. Sweet Peas, Disco Special Mixture	.10
			<b>\$2.00</b>

### Sent Prepaid to Any Address in the U. S.

This collection is sufficient to plant one-tenth of an acre. It will furnish vegetables from January to December. The kinds included are the ones needed in every garden. They have been selected with the greatest care and every packet is marked to show germination test. None better can be secured anywhere at any price. We are able to make this offer at

this special reduced price only by making up a large number of collections at one time so do not request

any changes. In ordering, simply specify "Wheeler's Model Garden Collection."

Don't ask for extras, discounts or premiums on this collection for we cannot allow them at this price.



**DAKOTA IMPROVED SEED CO.**  
Mitchell, S. D.

# Dakota Improved Seed Co.

Mitchell, South Dakota



Ever since the Dakota Improved Seed Company was organized in 1906 the annual catalog published by the company under the name of Wheeler's Seed Book, or as it is now known, the DISCO SEED BOOK, has been a family reference work in the farm homes of the Northwest. It has contained information of value on all farm and garden crops. Particular attention, however, has been given to alfalfa and corn. There has been so much demand for information on these two crops that we have adopted the plan of giving up one whole section of sixteen pages of the DISCO SEED BOOK to each of these two important crops. These two sections of the DISCO SEED BOOK are also being published under separate covers as the DISCO ALFALFA BOOK and the DISCO CORN BOOK. The catalog and price list of farm seeds, including descriptions and prices of all garden seeds and miscellaneous articles, is published as the DISCO ANNOUNCEMENT.

The problem of any organization is to render the greatest possible service to its patrons. It is the aim of this institution to make the DISCO SERVICE more efficient and of more value to its patrons each year. In the publication of these books and in giving special attention to hardy alfalfas and early varieties of corn for the North, we believe we are in line with progress in this direction.

The DISCO ORGANIZATION is at your service and we hope that every farmer and gardener in the Northwest will be benefited through its efforts.

Any of the four DISCO PUBLICATIONS is yours for the asking. The DISCO SEED BOOK, however, includes the other three, and if you are interested in farm and garden crops you should have this book on your book shelf at all times for reference.

*Disco*  
Service

Disco Organization  
Disco Information Bureau  
Disco Alfalfa Nursery  
Disco Registration System

*Disco*  
Publications

Disco Seed Book  
Disco Announcement  
Disco Corn Book  
Disco Alfalfa Book

DAKOTA  
IMPROVED  
SEED  
CO.  
MITCHELL  
SO. DAK.



**J.T. Morrow, Vice President**  
 Vice President Commercial and Savings Bank of Mitchell.  
 Treasurer Board of Trustees Dakota Wesleyan University



**W.A. Wheeler, Secretary and Manager**  
 1900-1903 Instructor in Botany School and College of Agriculture University of Minn.  
 1903-1907 Botanist of S. Dakota Agricultural College and Experiment Station.



**W.S. Hill, President and Treasurer**  
 Pres. S. Dakota State Board of Agriculture  
 Pres. Security Hotel Bank of Alexandria  
 Chairman Better Farming Committee of the S. Dakota State Bankers Association  
 Proprietor of River View Ranch in Hanson Co. S. D.  
 and of Timber View Herd of Red Poll Cows in Ia.



**A.E. Hitchcock, Director**  
 Pres. Board of Regents of Education of South Dakota  
 Water of Mitchell



**Isaac Lincoln, Director**  
 Pres. S. D. State Board of Agriculture  
 Pres. First State Savings Bank Aberdeen  
 Member Better Farming Com.  
 of S. D. State Bankers Assn.  
 Prop. Lincoln Ranch in Brown Co. S. D.  
 and Lincoln Herd of Galleyway Cows in Ia.

**Officers and Directors**  
 of the  
**Dakota Improved Seed Co.**  
 Mitchell, S. D.  
 Incorporated 1906

These men direct and control the policy of this company. Aside from their direct interest in the Dakota Improved Seed Co., each and every one of them is directly interested in the agricultural institutions and welfare of the Northwest.

**Read Our Guarantee**

The guarantee on the opposite page is not an ordinary guarantee that means nothing and will not protect the purchaser of seeds. We will do exactly what we promise in this guarantee. Read it over. It tells you plainly what to do to protect yourself against poor seeds.



**S.E. Morris, Director**  
 Director National Bank, Mitchell, S. D.  
 Pres. Board of Trustees Dakota Wesleyan University.



**L.R. Erskine, Director**  
 Prominently interested in the Better Farming Movement in South Dakota  
 Pres. of the Royal Plantation & Chicago

# GUARANTEE

*THE Dakota Improved Seed Company guarantees the seeds it sells to be as represented as to quality and germination. The Company will replace any seeds or refund the money on any seeds sold by it that prove to be otherwise.*

It shall be the duty of the purchaser of goods sold by the Company in order to claim the benefits of its guarantee:—

1. To order seeds early.
2. To inspect shipment carefully on arrival and report anything that appears wrong.
3. To take samples of all important bulk seeds in shipment. This applies particularly to seed corn, grass and clover seeds, and other main-crop seeds.
4. To test portion of sample for germination or send sample to U. S. Government Branch Laboratory, Columbia, Mo., or to your State Experimental Station.
5. If results of these tests are not as represented or are not satisfactory, to report this to the Company and adjustment will be made accordingly.
6. To make complaints, if any, as soon as the fact on which complaint is made can be determined. Complaints on the germination of seed corn must be made within two weeks after shipment is received and must be accompanied by an average sample of 100 kernels of corn taken from the unsatisfactory lot. Field results as to germination and purity may be referred to in making complaint but must not be depended upon as basis for settlement because field conditions are beyond the Company's control.

The Company will not insure a crop from seeds purchased as to description and productiveness because of the many factors which influence a crop and which are entirely beyond its control.

In no case will the liability of the Dakota Improved Seed Co. exceed the price paid for the seed purchased of the Company.

*We the undersigned, officers and directors of the Dakota Improved Seed Co., of Mitchell, South Dakota, do hereby represent that the above guarantees have been made with and by the authority of the Board of Directors and that the credit of said Company is pledged to the fulfillment of this contract.*

*W. H. Hill*

President and  
Treasurer

*Isaac Lincoln*

Director

*J. M. Minor*

Vice-President

*L. R. Eshkine,*

Director

*W. A. Wheeler*

Secretary and  
Manager

*A. E. Hitchcock*

Director

*Minor*

Director



# Please Read Before Ordering

When orders are received from this catalog the Dakota Improved Seed Company assumes that the customer has read this page before placing his order.

**Write plainly your name, postoffice, county and state** on each and every order sent us. If shipment is to be by freight, be sure to state whether the railway station is the same as your postoffice or not.

**Order early.** A great many delays and other troubles can be avoided by ordering early and we will consider it an accommodation if you will do this.

**Postage or express prepaid**—Always state manner you wish your order sent, whether by mail, express or freight. In considering our prices, please bear in mind that we prepay the postage or express on seeds listed by the packet, ounce, fraction of an ounce, pint, third-pint, pound, fourth-pound or quart, unless otherwise stated. Seeds go by mail or express at the special prepaid rate of 8 cents per pound. The smallest charge by express is 10 cents. If you are located near an express office and your shipment weighs twenty ounces or more it is better to ship by express, as it is safer.

**Cash must accompany order**, and should be in the form of money order, bank draft or as currency in a registered letter. Stamps will be accepted for amounts under \$1.

**Samples**—We furnish samples of our farm seeds to prospective buyers on request. These are all sent free except with ear corn, on which a charge of 10 cents per ear is made to cover cost of mailing. Samples of corn shelled and graded are sent free. When orders are placed from samples always give sample numbers with the order.

**Delays in shipment**—If we cannot send your order the same day that it is received we will mail you a card stating that we have received your order and we state the amount of money inclosed and the number of the order. If this notice or the seeds themselves do not reach you in reasonable season write to us without delay, so that we can look the matter up. If your order can be filled within a few days this is all the notice we give. If for some reason shipment on a part or all of your order is unavoidably delayed, we will give you notice. It sometimes happens that we are out of stock or our stock may not be cleaned ready for shipment, or there may be other reasons. Write to us if your order does not arrive in due season.

**Freight rates**—On page 80 of this book is a table of freight rates on seeds from Mitchell to various parts of the United States. This is intended to assist the customer in determining the approximate cost of freight to his station without the trouble and delay often caused by waiting to secure this information from the railroad company.

**Prices in this book are subject to change without notice**—The prices quoted are based on the conditions prevailing at the time this book goes to press. Except with grass and clover seeds, we seldom find it necessary to deviate from these prices during the season, and we do not raise prices unless we find it necessary. If you desire to place an order for items on which the prices are likely to fluctuate or for large amounts of any seeds, it is better to write for firm prices before ordering, same to be good for immediate acceptance. Prompt attention will be given requests for quotations.

**Insure your packages against loss or damage by mail**—We have made arrangements with an insurance company to insure packages sent by mail at the following rates: Three cents insures a package up to \$5; 5 cents up to \$15; and 10 cents up to \$30. If you wish your packages insured please include the amount required and we will send you fully this value in extra seeds. You therefore get this insurance absolutely free.

**Premium**—On any order for seeds priced per packet, ounce, fraction of an ounce or third-pint, to the amount of \$1 or more, we allow a premium of 25 cents' worth of seeds for each \$1 sent with order. This means that for every \$1 sent for such seed, \$1.25 worth of seeds may be selected by you when ordering. This premium will not be allowed on Model Garden Collections or other special collections.

## PREMIUM

Of 25 cents' worth of seeds extra on each \$1 sent with order.

Does NOT apply on Wheeler's Model Garden Collection or other special collections offered at less than regular catalog quotations.  
Does NOT apply on bulk seeds.  
DOES apply on all orders of packets, ounce, fraction of an ounce, and one-third pint.





# Order Sheet

Date \_\_\_\_\_ 191\_\_

**Dakota Improved Seed Co., Mitchell, So. Dak.**

Gentlemen: Please send the following seeds, etc.,

by \_\_\_\_\_  
[State here if wanted by mail, express or freight.]

Name \_\_\_\_\_

Post Office \_\_\_\_\_

State \_\_\_\_\_ County \_\_\_\_\_

R.D., P.O. Box or St. No. \_\_\_\_\_

Nearest Railway Station \_\_\_\_\_

State here name of town to which goods are to be sent if different from P.O.

*Is there a freight agent at your railroad station?* \_\_\_\_\_

If there is no freight agent at your shipping point, you must send money to prepay the freight charges. (See table of freight rates on inside back cover.) If there is an agent you can pay the freight when shipment reaches you. It is only necessary to prepay when there is no agent at your station. The charges will be the same.

*This order is placed subject to the guarantee and conditions of sale given on page 3 of the Disco Seed Book.*

STATE AMOUNT ENCLOSED		
Draft . . . . .		
Money Order . . . . .		
Currency . . . . .		
Stamps . . . . .		
Total . . . . .		

PLEASE DO NOT USE THIS SPACE  
*Order Received*

Order No. \_\_\_\_\_

Mail . . . . .	Charges
Express . . . . .	Collect . . . . .
Freight . . . . .	Prepaid . . . . .
Filled by _____	Date _____
Checked by _____	How Shipped _____

Cut Off On This Line

QUANTITY	Special Collections of Garden Seeds	Price Each	AMOUNT
	Wheeler's Model Garden Collection	\$1.00	
	"Disco 50" Collection of Garden Seeds	50c	
	"Disco 25" Collection of Garden Seeds	25c	
	"Disco Beauty" Flower Collection	50c	
	"Disco Junior" Flower Collection	25c	
No Premium Allowed on any of the Above Collections			
SEEDS OR OTHER ARTICLES WANTED			

**Keep a Copy of this Order**                      Amount forward [over]



Dakota Improved



Seed Company



We will consider it a special favor if you write below the names of some of your friends who are likely to use seeds

NAMES	POST OFFICE	STATE

### Order Sheet—(Continued)

QUANTITY	SEEDS OR OTHER ARTICLES WANTED	Amount Brought Forward
Total,		- - - -

If more room is needed for list of seeds, attach another sheet of paper to this order blank for remainder of list.



# Farm Crop Seeds

It has been the aim of the Dakota Improved Seed Company to give special attention to the handling of the seeds of improved strains of the standard farm crops. With alfalfa, corn, millet and some other crops we have made very marked progress and have to offer varieties and registered stocks better adapted to severe northern conditions than can be obtained anywhere else to our knowledge. With some of the standard crops, such as wheat, oats, barley and flax, the best we have been able to do is to introduce one or two improved varieties and serve as a medium of distribution for the improved strains introduced by the various experiment stations. This year we have no new or specially selected varieties of these to offer, so list here only those that have been thoroughly tried and of which we have stocks to sell. We will, however, call special attention here to emmer or speltz. Corn, alfalfa, millet and other farm crop specials will be fully described elsewhere in the Disco Seed Book.

## Emmer or Speltz

This crop is becoming more popular every year. Very few farmers in the Northwestern great plains region can afford to be without it. It produces a good yield under adverse circumstances, where other crops would fail. It will stand more dry weather than any other grain crops, with the possible exception of durum wheat. It produces more food value per acre than any of our other grains and is a valuable feed for all kinds of stock. The plant is almost entirely free from rust, smut and other grain diseases.

We wish to do everything we can to encourage the growing of emmer in the Northwest. Farmers in the semi-arid portions of the great plains region who depend on such crops as Swedish Select oats, Hanna No. 24 barley, brome-grass and alfalfa need have no more fear of crop failures than those in the regions of more abundant rainfall. Emmer should occupy a place in every dry farming rotation. Prices given below.



Heads of Emmer or Speltz. Very Similar to Wheat Heads.

### Bags included at these prices.

	Bushel	Sack of 2½ bu.	4 sacks or more per sack
<b>Wheat</b> , Minnesota No. 169.....	\$1.50	\$3.50	\$3.25
S. D. Bearded Red Fife.....	Write for prices.		
Kubanka Durum .....	None to offer.		
<b>Oats</b> , Sixty-day .....	1.00	2.25	2.00
Swedish Select .....	1.00	2.25	2.00
<b>Barley</b> .....	None to offer.		
<b>Buckwheat</b> , Silver Hull .....	1.50	3.50	3.25
Japanese .....	1.50	3.50	3.25
<b>Flax</b> , Minnesota No. 25	}	Write for prices on flax after March 15th.	
North Dakota No. 152			
Disco Brand, Northern grown			
<b>Canada Field Peas</b> .....	2.75	6.00	5.75
<b>Emmer or Speltz</b> .....	1.00	2.00	1.90
<b>Potatoes</b> .....	None to offer.		

### Field Corn, Rape, Sorghum and Millet

are priced on page 8 and are fully described in the Disco Corn Book and pages 33 to 48 of the Disco Seed Book.

### Alfalfas, Clovers and Grass Seeds

are priced on page 9 and are fully described in the Disco Alfalfa Book and pages 49 to 64 of the Disco Seed Book. Alfalfa and Seed Corn are our specialties and we invite your inspection of the varieties and stocks we have to offer you. There are none better.



### Disco Seed Corn

For full description of the varieties of seed corn and other crops listed on this page we refer you to pages 1 to 16 of the Disco Corn Book or pages 33 to 48 of the Disco Seed Book.

Prices given here are those in force January 1, 1914, and we have anticipated as far as possible the prevailing prices for the season, but are obliged to hold these subject to change at any time without notice. Bags included at these prices.

#### SHELLED AND GRADED.

	Days to Mature	1/4 bu.	Bu.	4 bu. or over	On the Ear-Cracked or Broken, per bu.
Disco-Pride, Improved strain of Brown County Yellow Dent... "Stock seed" from Montana and Northern South Dakota.	85	\$0.75	\$2.50	\$2.25	
Northwestern Dent, Standard Variety. Early Selection.....	85	.85	2.75	2.50	
Minnesota No. 23, Earliest recommended by Minnesota Exp. Sta. "Stock seed" from Minnesota and South Dakota.	85	.75	2.50	2.25	
Disco 85-Day White, Improved strain of Payne's White Dent... "Stock seed" from Northern South Dakota.	85	.75	2.50	2.25	
Disco 90-Day White, Disco-White Dent of 1913..... Bred and grown in the vicinity of Mitchell, S. D.	90	.75	2.50	2.25	\$3.00
Disco 100-Day White, Acclimated Silver King..... Grown near Mitchell, S. D.	100	.75	2.50	2.25	
Rustler White Dent, South Dakota strain..... Grown near Mitchell, S. D.	90	.75	2.50	2.25	3.00
Minnesota No. 13, Minnesota Experiment Station strain..... "Stock seed" grown in Central Minnesota.	90	.75	2.50	2.25	3.00
Disco-Murdock, Improved strain of Early Murdock..... Bred and grown in the vicinity of Mitchell, S. D.	100	.75	2.50	2.25	3.00
Riverview Special .....	100	.75	2.50	2.25	
Bred and grown near Mitchell, S. D.					
Gehu Flint, Earliest flint variety..... "Stock seed" grown in North Dakota.	80	.90	3.00	2.75	
Disco Squaw Corn, All colors of rainbow..... "Stock seed" grown in Central South Dakota.	85	.90	3.00	2.75	
Disco Amber Flint, a very productive early variety..... Bred and grown near Mitchell, S. D.	..	.85	2.75	2.50	
Second Grade Seed Corn, Make first and second choice of above varieties, as stocks are limited.....	..	.60	1.75	1.50	
Northern Fodder Corn, Earliest dent varieties used, 4 to 6 ft..	..	.50	1.25	1.10	
Medium Fodder Corn, Early to medium varieties, 6 to 8 ft.....	..	.50	1.25	1.10	
Early Sweet Fodder, Fine for early feed.....	..	.70	2.00	1.75	
Evergreen Sweet Fodder, a great producer.....	..	.65	1.75	1.50	
Evergreen Sweet Corn, Choice stock for field or garden.....	..	.90	2.75	2.50	

#### Explanation of Terms Used Above

"STOCK SEED." Seed especially bred and selected with extra care from which seed is to be grown for sale. The source of "stock seed" from which your seed is grown is very important. We give source of our "stock seed" in above table. Most of our seed for sale is grown near Mitchell, S. D.

ON THE EAR. Only where price on the ear is given will seed corn be sold in this way.

SHELLED AND GRADED—The commercial grading consists in removing the poor shaped kernels, the small tip kernels and large butt kernels, leaving one good grade of seed corn.

DAYS TO MATURE—We give here merely for comparison the approximate number of days required for these varieties to mature good corn under favorable conditions in South Dakota.

Bags are included at these prices.

### Dwarf Essex Rape

PRICES—Pound, postpaid, 25 cents. By express or freight at purchaser's expense—5 pounds, 60 cents; 10 pounds, \$1.00; 25 pounds, \$2.25; 100 pounds or over at \$8.00 per 100 pounds.

### Sorghum

Variety	Lb.		By Express or Freight			
	Postpaid	1 lb.	5 lbs.	10 lbs.	50 lbs.	100 lbs.
Amber Cane, for forage.....	\$0.25	\$0.15	\$0.40	\$0.70	\$2.00	\$3.50
Kaffir Corn, for grain or forage.....	.25	.15	.35	.60	1.50	2.50

### Millet

We are one of the largest growers and shippers of millet in the Northwest and are in a position to furnish you the best seed that can be produced. Prices are subject to change without notice.

Variety	Weight per Bu.	Sack of			
		1/4 Bu.	Bu.	2 1/2 Bu.	4 Sacks per Sk.
Selected Kursk .....	50 lbs.	\$0.60	\$1.75	\$3.75	\$3.50
Disco Kursk No. 1 .....	50 lbs.	.75	2.00	4.00	...
Siberian .....	50 lbs.	.60	1.75	3.50	3.25
German, South Dakota grown.....	50 lbs.	.60	1.75	3.50	3.25
Japanese .....	36 lbs.	.50	1.50	3.25	3.00
Early Fortune or other broomcorn varieties available.	50 lbs.	.60	1.75	3.75	3.50

Full descriptions of Field Corn, Rape, Sorghums and Millet are given in Disco Corn Book.



### Disco Alfalfa Seed

There is no one crop about which there is more written and more agitation than alfalfa. It has been under cultivation for thousands of years and yet there is no crop of nearly equal importance about which so little is known over a large part of the United States and Canada. For this reason we have written to considerable length in the Disco Seed Book and the Disco Alfalfa Book about this important crop. We have given full description and history of the so-called varieties, explanation of the commercial terms in common use as applied to alfalfa, comprehensive cultural directions for growing alfalfa and also a full outline of our method of growing and handling alfalfa seed.

It will be worth while for anyone interested in alfalfa to read these pages and learn exactly what is meant by the terms Commercial Alfalfa Seed, Disco Registered Alfalfas, Disco Pedigreed Alfalfas, Hardy Types, Acclimatization, Inoculation and many others that are discussed. It is also important to know just what value can be placed upon the commercial terms, such as Turkestan, Montana, Western, European and others when applied to alfalfa seed.

To lend interest to the descriptions we have also told how one organization is using about \$30,000.00 worth of Disco Registered Alfalfa seed this season.

### Prices of Alfalfa Seed

In effect January, 1914. Subject to change without notice.

Write for special prices on larger quantities or special stocks. There is no alfalfa proposition too large or too small for us to handle.

Following prices include bags, but not postage, express or freight. If to go by mail add 8 cents per pound for postage. Seeds do not take special parcel post rates.

For full description of terms used in designating our various stocks of alfalfas, clovers and grass seeds and cultural directions for same we refer to pages 49 to 64 of the Disco Seed Book or pages 1 to 16 of the Disco Alfalfa Book.

	1 lb.	4 lbs.	20 lbs.	100 lbs.
<b>Commercial Alfalfa.</b>				
Dakota Crown, Disco Brand.....	\$0.30	\$1.00	\$4.50	\$20.00
Dakota Crown, Emerald Brand.....	.25	.80	3.50	16.00
<b>Disco Registered Alfalfas.</b>				
Disco 28, Disco 38 and other specially desirable strains of over 25 years' performance record in South Dakota or Montana.....	.50	1.40	6.00	28.00
Disco Numbers, covering well selected strains of over 10 years' record in South Dakota.....	.40	1.25	5.50	25.00
<b>Disco Pedigreed Alfalfas,</b>				
Including Disco-Baltic, Disco-Grimm and pedigreed selections from these and other well known hardy alfalfas..	1.00	3.50	15.00	

For full descriptions of the above see pages 1 to 16 of the Disco Alfalfa Book or pages 49 to 64 of the Disco Seed Book.

### Prices of Clovers and Grasses

In effect January, 1914. Subject to change without notice.

Bags included at these prices. If to go by mail add 8 cents per pound for postage.

For descriptions of clovers and grasses we refer to pages 61 and 63 of the Disco Seed Book or pages 13 and 15 of the Disco Alfalfa Book.

	1 lb.	10 lbs.	Bu.	100 lbs.
Medium Red Clover, Disco Brand.....	\$0.25	\$2.25	\$12.00	\$20.00
Medium Red Clover, Emerald Brand.....	.25	2.00	11.00	18.00
Mammoth Red Clover, Disco Brand.....	.25	2.25	12.00	20.00
Mammoth Red Clover, Emerald Brand.....	.25	2.00	11.00	18.00
Alsike Clover, Disco Brand.....			Write for Prices.	
Alsike Clover, Emerald Brand.....			Write for Prices.	
White or Dutch Clover.....	.40	3.50	.....	.....
Sweet Clover, White or Yellow-Flowered.....			Write for Prices.	
Timothy, Disco Brand.....	.15	1.00	4.25	9.00
Timothy, Emerald Brand.....	...	.90	3.75	7.75
Russian Brome Grass.....			Write for Prices.	
English Blue Grass.....			Write for Prices.	
Slender Wheat Grass.....			Write for Prices.	
Kentucky Blue Grass.....	.25	2.00	.....	18.00
Disco Lawn Mixture.....	....	.25	2.25	17.50

Full descriptions of Alfalfas, Clovers and Grasses given in the Disco Alfalfa Book.



Mammoth Long Red Mangels

## Field Root Crops

The American people pay altogether too little attention to the growing of root crops for their stock. Roots occupy a position in both crop rotation and feeding rations that cannot be taken up by any other crops.

### Mangel-Wurzel

**GOLDEN TANKARD**—Yellow in color; flesh is solid and firm. Extremely productive and valued highly by all dairymen and other feeders as a field root crop.

**MAMMOTH LONG RED**—Roots are very large; deep red in color. Very productive and very popular. This has given remarkable yields in South Dakota.

**GIANT YELLOW INTERMEDIATE**—A variety intermediate between the long and the globe shaped varieties. Flesh white, firm and solid.

Any variety, by mail, postpaid—ounce, 5 cents; pound, 50 cents. By express or freight—pound, 40 cents; 5 pounds or over at 30 cents per pound.

### Sugar Beets

**KLEIN WANZLEBEN**—This variety is perhaps more extensively grown than any other. It is well adapted for growing in the Northwest.

**VILMORIN'S IMPROVED**—This variety has been developed through continued selections made by the famous seedsmen of France, and represents the best that can be obtained in sugar beet varieties at the present time. Prices same as for mangel-wurzel.

### Carrot

**MASTODON**—This is the heaviest yielding carrot grown, yielding a greater weight of roots per acre than any other sort. The flesh is white, solid and sweet. It is a vast improvement over the older white and green Belgian sorts which are usually grown. The roots are short, making them easy to harvest.

**VICTORIA**—A very large, fine stock carrot. This is the best and heaviest yielding yellow carrot that we know of. It appears to be a heavy cropper on all kinds of soil, but is especially adapted to rich, strong land.

Either variety—ounce, 10 cents; ¼ pound, 30 cents; pound, 90 cents; postpaid. By express or freight—pound, 80 cents; 5 pounds, \$3.75; 10 pounds, \$7.

### Rutabaga

**MONARCH**—The best and highest yielding rutabaga grown. It usually yields from two to five tons more to the acre than any other variety. We can recommend it very highly to all stockmen.

**PURPLE TOP YELLOW**—This does not give the immense yield per acre that is produced by the Monarch rutabaga, but, besides being used for stock feeding, it is suitable for table use as well. Roots grow to a large size and are of fine quality.

**GOLDEN GLOBE**—Very similar to the Purple Top Yellow, except for the color of the crown, which is green instead of purple. An excellent variety and a good yielder.

Either variety—ounce, 10 cents; ¼ pound, 20 cents; pound, 50 cents; postpaid. By express or freight—pound, 40 cents; 5 pounds or over at 30 cents per pound.

## Flowers

## Sweet Peas



No more popular flower is grown than the sweet pea, either for display in the garden or for cut flowers. They are very easily grown if a few general directions are followed. They should be sown very early in the spring and the seeds should be placed several inches deep in the ground and covered gradually. The planting of sweet peas late in the season and only an inch deep is the cause of a large number of failures. We are not listing separate named varieties, but the Disco mixture we offer is made up of the best named varieties we can secure, ranging in color from a very dark maroon to light pink and white. This mixture has given marked satisfaction wherever it has been tried during the past two years. We can recommend it for general planting.

**DISCO SPECIAL MIXTURE**—per ½ ounce, 15 cents; ounce, 25 cents; ¼ pound, 50 cents; pound, \$1.50; postpaid.

**COUNTESS SPENCER MIXED**—The flowers of the Spencer Type of sweet peas are of unusually large size and beautifully crumpled or waved. These are rapidly gaining in public favor and deserve to occupy a very important place in every flower garden. As the plants are shy seeders, the seed will always be more expensive than the common type. Per ounce, 35 cents; ¼ pound, 75 cents; postpaid.

## “Disco-Beauty” Collection

Twenty varieties of choicest flower seeds.

Regular catalog price, \$1.20. Our special collection price, 50 cents.

Includes one regular size packet of each of the following:

Alyssum, Sweet Alyssum.

Asters, Queen of the Market.

Balsams, Double Camellia-flowered.

Candytuft, All Colors Mixed.

Centaurea, Imperialis Mixed.

Cypress Vine, Mixed Colors.

Dianthus, Double Chinese Pinks.

Eschscholtzia, Golden West.

Four-o'clock, Mixed Colors.

Hollyhock, Mammoth Allegheny.

Marigolds, Double Dwarf African.

Mignonette, Many Kinds Mixed.

Morning Glory, All Colors.

Nasturtiums, Dwarf, Mixed Colors.

Pansies, Fine Mixture.

Petunia, Fine Mixture.

Phlox, Fine Mixed.

Poppy, Special Double Mixed.

Portulaca, All Colors.

Verbena, Fine Mammoth.

## “Disco-Junior” Collection

Twelve varieties of finest blooming annuals.

Regular catalog price, 60 cents. Our special collection price, 25 cents.

Includes one regular packet of each of the following twelve varieties:

Alyssum, Sweet Alyssum.

Balsams, Double Camellia-flowered.

Candytuft, All Colors Mixed.

Dianthus, Double Chinese Pinks.

Eschscholtzia, Golden West.

Four-o'clock, Mixed Colors.

Mignonette, Many Kinds Mixed.

Morning Glory, All Colors.

Pansies, Fine Mixture.

Petunia, Fine Mixture.

Portulaca, All Colors.

Poppy, Special Double Mixed.



## Flowers

**AGERATUM**—One of the best summer blooming plants grown from seeds.

**Dwarf Blue Perfection**—Plant nine inches high; flowers deep blue; 10 cents.

**Imperial Dwarf White**—Plant six inches high; fine for borders; 10 cents.

**ALYSSUM**—One of the easiest grown summer bloomers; fine for edgings.

**Common Sweet Alyssum**—5 cents.

**Little Gem**—Extra fine, dwarf; 10 cents.

**ANTIRRHINUM** — Snap Dragon; easily raised from seed in sunny locations.

**Special Mixture** of giant flower sorts; the very best obtainable; 10 cents.

**ASTERS**—Beautiful for bedding or cut flowers.

**Queen of the Market**—The best early sort; Includes many colors; 10 cents.

**Giant Comet**—A handsome, tall, large flowering sort; 10 cents.

**Paeony-flowered Perfection**—Flowers very double, large, borne on long stems; 10 cents.

**Finest Dwarf Mixed**—An extra choice mixture of dwarf varieties; 10 cents.

**BALSAMS**—Will grow under almost any condition.

**Double Camellia-flowered**—Very fine; 5 cents.

**Finest Dwarf Mixed**—5 cents.

**CANDYTUFT**—A beautiful annual bedding and border plant; sow in open ground.

**Giant Hyacinth-flowered White**—An improved strain, far superior to the ordinary kind; 10 cents.

**Choice Mixed**—All sorts and colors; 5 cents.

### CARNATION

**Dwarf Marguerite**—Blooms in a few months from seed; transplant into beds or borders; 10 cents.

### CENTAUREA

**Cyanus, Bachelor's Button**—Very well known; excellent for cut flowers; all colors; 5 cents.

**Imperialis, Sweet Sultan**—One of the finest for cut flowers; very easily grown; mixed colors; 10 cents.

**CYPRESS VINE**—A fine but not rank climber; flowers red and white; leaves finely cut.

**Choice Mixed**—5 cents.

**COSMOS**—Very popular for cut flowers; grows and blooms with the greatest freedom.

**Early-flowering Hybrids Mixed**—10 cents.

**DAHLIA**—Can be raised from seed and will bloom the first year.

**Best Mixture of Double Varieties**—15 cts.

**Single Giant Perfection Mixed**—10 cents.

### DAISY

**Shasta Daisy**—One of the finest new perennials for herbaceous borders and also for cut flowers; hardy anywhere in this latitude with very slight protection; produces strong plants first year from seed; 10 cents.

**DIANTHUS PINKS**—Present one of the richest arrays of colors of any garden plant.

**Choicest Single Mixed**—5 cents.

**Choicest Double Mixed**—5 cents.

**Single Fringed**—5 cents.

**ESCHSCHOLTZIA or CALIFORNIA POPPY**—Will grow and bloom under all conditions; a very good bedding plant.

**Golden West**—Very fine; 10 cents.

**Mixed**—5 cents.







## Flowers

**FOUR-O'CLOCK**—An old-fashioned but very popular bedding plant; 5 cents.

**FOXGLOVE**—Particularly desirable for borders and among shrubbery; blooms the second season.

**Monstrosa**—Very large and fine; 10 cents.

**Gloxinia-flowered**—5 cents.

**GOURDS**—Rank-growing, ornamental climbers.

**Mixed**—5 cents.

**HOLLYHOCK**—When grown in the right place, there is no plant that can add more to the appearance of a yard.

**Finest Single**—5 cents.

**Prize Mixture** of all the finest named double varieties; 10 cents.

**Allegheny**—Very large, semi-double flowers with frilled edges; 10 cents.

**LARKSPUR**—Suitable for borders and for cut flowers.

**Double Dwarf Rocket**—5 cents.

**Double Tall Rocket**—5 cents.

**MARIGOLDS**—Old favorite free flowering annuals of easy culture.

**Special Tall Mixed**—Includes the finest named tall varieties in grand mixture; 10 cents.

**Special Dwarf Mixed**—10 cents.

**Double Dwarf African Mixed**—5 cents.

**MIGNONETTE**—One of the most fragrant of garden flowers.

**Golden Machett**—Very fine; 10 cents.

**Goliath**—Enormous spikes of flowers; 10 cents.

**Giant Pyramidal**—A very good strain; 5 cents.

**MORNING GLORY**—Popular, strong growing climbers.

**All Colors Mixed**—5 cents.

**Imperial Japanese**—Flowers of extraordinary beauty; 10 cents.

**NASTURTIUMS**—No other annual will produce such a lavish profusion of flowers for so long a time, with so little attention.

**Finest Dwarf Mixed**—Packet, 5 cents; ounce, 10 cents.

**Tall Mixed**—Packet, 5 cents; ounce, 10 cents.

**PANSIES**—When sown in summer or fall and protected during winter produces the most beautiful array of flowers in early spring; the largest flowers are produced in cool weather.

**Imperial German Mixed**—5 cts.

**Disco Mixture of Finest Sorts**—10 cents.

**Separate Colors**—White, yellow, blue, black or red, 5 cents each.

**PETUNIA**—Once started, grow like weeds from early summer until frost.

**Fine Mixed**—5 cents.

**Special Dwarf Mixture**—Made up from six of the finest small-flowered dwarf sorts; nothing better for a brilliant bedding effect; 15 cents.





## Flowers



**PHLOX**—One of the best bedding plants; a great variety of colors.

**Large-flowered Mixture**—5 cents.

**Dwarf**—Six to eight inches high; for edging; 5 cents.

**POPPY**—Flowers brilliant and showy; very easily grown by sowing seed in the open ground; a striking display can be had with little work.

**Special Single Mixed**—5 cents.

**Special Double Mixed**—5 cents.

**Dwarf Shirley**—Delicate shades; 5 cents.

**Mixture of all kinds**; 5 cents.

**PORTULACA or ROSE MOSS**—Grows well under most conditions, but, like its cousin the Purslane, does best in warm weather; used for edgings.

**Single Mixed**—5 cents.

**Double Mixed**—Produces a good proportion of double flowers; 10 cents.

**RICINUS or CASTOR OIL BEAN**—A large and beautiful tropical plant; makes a fine showing among shrubbery or in clumps.

**Mixed**—5 cents.

**Zanzibarensis**—The largest and most magnificent variety; 10 cents.

**SUNFLOWER**—Very desirable for fence-rows, hedges or borders.

**Miniature Sunflower**—Three feet tall; produces an abundance of single flowers; 10 cents.

**Double Chrysanthemum-flowered**—5 cts.

**VERBENA**—A beautiful spreading plant for bedding or cut flowers; our seed is the very choicest obtainable.

**Mammoth White**—5 cents.

**Mammoth Pink**—5 cents.

**Mammoth Mixed**—All colors; 5 cents.

**ZINNIAS**—A showy bedding plant; very desirable with shrubbery or in borders; easily grown.

**Finest Double Mixed**—5 cents.

**Double Dwarf Mixed**—5 cents.

## Gladiolus

The gladiolus is one of the easiest flowers to grow that we have in our gardens. No extra care is required to produce the finest display of bloom. Every bulb that we offer is capable of producing a large spike of beautiful flowers the first season. They are not the small bulbs that require two years' growth before blooming, but every one of them is an extra large blooming size bulb. Everybody should try at least a few in the flower garden this year. With gladiolus one does not have to secure new bulbs every year. Once started, they will increase every year, so that you will have two or three times as many bulbs each year than you had before. All that is required is to take them up when the stalks have dried down to the ground in the fall and store them in a cool, dry place over winter.

**DISCO-SPECIAL MIXTURE**—This includes one of the best arrays of colors that we know of. Hardly any two will be alike. They range from the deep red shades to light yellow and pure white. The bulbs are all of blooming size. Price, 40 cents per dozen; 40 bulbs for \$1.

## Garden Seed Collections

One of the heaviest items of expense in the handling of garden seed orders is usually the gathering of the different packets and varieties together and packing them for shipment. This must necessarily be done with each individual order where the seeds are selected by the customer. In order to do away with much of this expense, and thus give many more seeds for the same money, we are offering several collections of seeds already put up ready to mail. These include the best varieties we handle and are put up to meet the demands of the one who has only a few square feet in the back yard or the gardener who grows all kinds of vegetables, using from a fraction of an acre to an acre or more. Whatever the size of your garden, you save money by using one of these collections.

By putting up hundreds of these at one time we can do this at very little expense for the packing. By this system you pay for the seeds you are getting and are not obliged to pay for the time usually required by the packer who puts up an individual order.

By a careful study of the three collections we are offering you will undoubtedly find one that will just meet your needs. If it does not exactly do so you can probably save some by ordering one of the smaller collections and adding to it according to your individual needs.

On account of putting up a large number of these collections at one time we cannot make any change in the varieties included in the collections, so please do not request us to do this.

### “Disco-50” Collection

This collection is intended for the small gardener who wishes to grow a good variety, but hasn't the room for everything or a large amount of any one thing. This is also a good collection to order if one has a larger garden, but wishes to select a number of special varieties from the catalog to add to the number included in the collection.

**Eighteen Varieties. Regular catalog value, \$1.05. Collection price, 50 cents.**

Beans, Bush Wax Variety.  
 Beet, Crimson Globe or Egyptian.  
 Cabbage, Eureka or Wakefield.  
 Carrot, Oxheart or Chantenay.  
 Sweetcorn, Golden Bantam.  
 Lettuce, California Cream Butter.  
 Lettuce, Prizehead.  
 Onion, Red Globe or Wethersfield.  
 Parsley, Extra Moss Curled.

Parsnip, Hollow Crown or Guernsey.  
 Pepper, Ruby King or Bull Nose.  
 Radish, White Icicle.  
 Radish, Rosy Gem.  
 Tomato, Disco Thornber.  
 Nasturtiums, Finest Dwarf.  
 Four-o'clock, Mixed Colors.  
 Pansy, Disco Mixture.  
 Sweet Peas, Disco Mixed.

### “Disco-25” Trial Collection

The man who lives in town and gets a spade into his hand when the warm days of spring give him the garden fever, or who follows his wife's instructions and “makes garden,” doesn't wish the whole string of vegetables and flowers listed in the catalog, but wants those that take but little room and can be easily handled in a 2x4 spot in the back yard.

This collection meets this demand exactly. It is also a good trial collection for the gardener who is extremely critical as to the seed he buys and is skeptical of a firm that guarantees its seeds. He wishes to try them before buying in quantity. This collection or the “Disco 50,” if given a fair trial, will convince any gardener that our reason for guaranteeing our seeds is not for the advertising it gives us, but because we have confidence that our seeds will stand the test.

**One packet each of ten varieties. Catalog value, 60 cents. Collection price, 25 cents.**

Beet, Crimson Globe or Egyptian.  
 Carrot, Oxheart or Chantenay.  
 Lettuce, California Cream Butter.  
 Onion, Red Globe or Wethersfield.  
 Parsnip, Hollow Crown or Guernsey.

Radish, Rosy Gem.  
 Tomato, Disco Thornber.  
 Nasturtiums, Finest Dwarf.  
 Sweet Peas, Disco Mixed.  
 Four-o'clock, Mixed Colors.

### Wheeler's Model Garden Collection

**Thirty choice varieties. Regular value, \$2. Collection price, \$1.**

Every one who intends to raise a garden should order at least one of these collections. This special assortment includes almost everything that will be needed to supply the average family with vegetables all the year round. These are our very choicest varieties—thirty in all—the same quality you buy at regular prices, but by packing a large quantity of the same seeds at once we can afford to sell for less. We also desire to introduce our improved vegetable seeds to all who have a garden, therefore, as a special feature, we offer these thirty choice varieties of **guaranteed seeds at half price.** Don't overlook Wheeler's Model Garden Collection when making out your order. Complete list of varieties on inside of front cover.

## Beans

**Culture**—Beans do not make any great demand on soil fertility. Not only will they grow on almost any soil, but they tend to benefit rather than impoverish soils upon which they are grown. It is safe to plant them only after the danger of late frost is past. For extra early string beans, however, it is customary to plant a few earlier and run the risk of being frozen. Sow bush varieties in drills two or three inches apart in the row. Hoe well in dry weather to keep down the weeds. Sow every two weeks for succession.

**DAVIS KIDNEY WAX**—One of the most hardy and productive wax beans. Pods long, white, straight, crisp and tender. Vines rustless and very vigorous, bearing the pods in clusters. Seed kidney-shaped and white (Fig. A).

**PENCIL POD BLACK WAX**—Very productive and popular. Pods round and deeply saddle-backed, six to seven inches long, light golden yellow color (Fig. B).

**EXTRA EARLY RED VALENTINE**—A popular standard, early, green-podded, bunch bean. Bushes about fifteen inches high, productive of round, fleshy pods of good flavor (Fig. C).

**IMPROVED GERMAN BLACK WAX**—One of the most popular and productive of the wax podded varieties. Pods medium length, curved, cylindrical, fleshy and of a clear yellowish white. Remain for some time in condition for use (Fig. D).

**WARDWELL'S KIDNEY WAX**—A standard variety of strong, upright growth, early and very productive. Pods straight, flat, rich golden yellow in color and of good quality. This variety is so well and favorably known that it recommends itself to more general use (Fig. E).

**BURPEE'S STRINGLESS GREEN POD**—An early green podded bean of fine quality. Pods are large, round, straight, and perfectly stringless. The best green-podded bunch bean for the home garden. Valuable for a succession of plantings. It continues in bearing and furnishes string beans throughout the season (Fig. F).

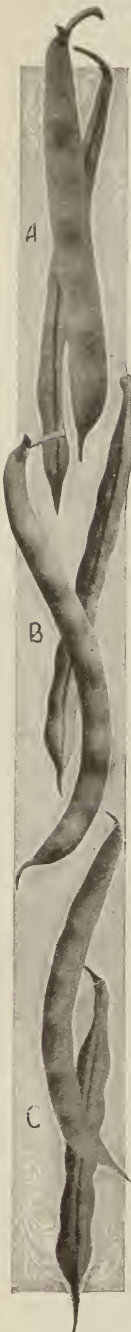
**BURPEE'S BUSH LIMA**—The bush form of the large Lima bean. Very productive of large pods. Not recommended for planting on a large scale much north of the southern boundary of Minnesota.

**SIEBERT'S EARLY POLE LIMA**—The earliest of the large Limas. The vines are very productive and the pods are of immense size.

**HENDERSON'S BUSH LIMA**—This is the earliest of the Limas. A bush selection of the small Sieva Lima. The bushes are very productive and the beans when young are of excellent flavor.

**WHITE NAVY or PEA BEAN**—The standard variety for field culture for dry shell beans.

**Prices**—Any variety listed above—ounce packet, 5 cents;  $\frac{1}{2}$  pint, 10 cents; pint, 25 cents; quart, 45 cents; postpaid. By express or freight—quart, 30 cents. For prices on larger quantities, write for special quotations.



## Disco Leader Bean

A new-old bean of great merit—new because it has not been known by a definite description and name, old because it has been grown in the Northwest for thirty years or more. Wherever it is known in the Northwest it has become very popular and has almost superseded the common Pea or Navy Bean. In comparison with the Pea or Navy Bean it is earlier, more productive, has less tendency to produce runners and has a flavor that is very popular. At Aberdeen and other towns of South Dakota where this bean has been known for years it sells on the market more readily and at better prices than the small Navy. It is used only as a dry shell bean, and the fact that the beans are two or three times as large as the common Navy Bean makes the expense of hand-sorting or hand-picking only about half that of the common variety.

This bean is not an unknown quantity but a tried variety and we can recommend it very highly to anyone in the Northwest wanting the earliest, most drouth-resistant, most productive and best flavored dry shell bean on the market.  $\frac{1}{2}$  pint, 10 cents; pint, 25 cents; quart, 40 cents; postpaid. By express or freight—quart, 25 cents; peck, \$1.25; bushel, \$4.50.

## Beet

**Culture**—Sow as soon as the ground can be worked in the spring for an early crop, and from ten days to two weeks later for general planting. One or two plantings of the same variety or one planting of an early and a late variety will supply fresh beets for the entire season, for they can be eaten from the time they are an inch in diameter until they mature. Sow in drills sixteen inches to two feet apart for the garden varieties, and

eighteen inches to two and one-half feet for the field or stock beets.

**CRIMSON GLOBE**—A very good early and main-crop variety of globular shape, deep crimson color, fine quality and handsome appearance.

**CROSBY'S EGYPTIAN**—Extra early; dark red in color. An improved strain of the original Egyptian. There is no finer extra early beet offered.

**DETROIT DARK RED**—An excellent main-crop garden beet. Noted for its small tops and upright growth. Roots globular, blood red in color, remaining tender and sweet for a long time.

**ECLIPSE**—A very popular early beet. Very productive and of excellent quality. Roots large, round, smooth and blood red. A good variety for either home use or market.



**EDMAND'S BLOOD TURNIP**—A valuable sort much grown by market gardeners because of its regular shape, early maturity, fine flavor and good qualities.

**SWISS CHARD OR SPINACH BEET**—This does not make edible roots, like the regular garden beets, but is grown for the broad, white leaf-stalks, which are bunched and cooked in the same manner as asparagus, and make a delicious summer vegetable. The young leaves may be gathered also and cooked like spinach.

Any variety listed above, postpaid— $\frac{1}{2}$  ounce, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 20 cents. See "Field Root Crops," page 10, for mangels and sugar beets.

**ASPARAGUS—COLUMBIAN MAMMOTH WHITE**—A distinct and valuable variety. Produces an abundance of clear white shoots which remain white as long as fit for use. Packet, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 25 cents; pound, 75 cents; postpaid.

**CONOVER'S COLOSSAL**—This is the standard variety. It is the same as the famous French variety, Argenteuil. It is considered less liable to rust than most other varieties. Packet, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 20 cents; pound, 55 cents; postpaid.

**BROCCOLI—PURPLE CAPE**—The standard variety, forming close, compact heads of a brownish purple color. Packet, 5 cents; ounce, 35 cents; postpaid.

**BRUSSELS SPROUTS—IMPROVED DWARF**—A very good sort, producing many "small cabbages" of delicate flavor. Packet, 5 cents; ounce, 20 cents; postpaid.



## Cabbage

**Culture**—No soil can be too rich for the cabbage. Plant food in an available form is absolutely necessary for the production of good heads. The seed may be sown directly in the field or it may be sown in boxes or frames and transplanted to the garden or field. The latter is the more general practice, because of less danger from the cutworms and flea beetles which trouble the young plants before they are able to take care of themselves. One-fourth pound of seed will ordinarily plant an acre. The small heading varieties, such as Early Jersey Wakefield or Winnigstadt, may be transplanted two or three feet apart each way, while the larger varieties require three to four feet.

**DISCO-EUREKA**—A very early cabbage having small round heads. In our trial grounds this produced 95 per cent of good heads. In Bulletin 91, from the South Dakota Agricultural College, this is reported as the earliest out of 127 varieties and as heading 100 per cent.

**EARLY JERSEY WAKEFIELD**—The popular first early cabbage. Heads cone-shaped, solid, with few outside leaves. Very desirable for home or market.

**CHARLESTON WAKEFIELD**—This variety is similar to Early Jersey Wakefield and is supposed to be about ten days later. In our trial grounds in 1908 and 1909 this variety was the best and surest heading early cabbage and proved to be just about as early as the Early Jersey Wakefield.



## Disco-Summer Cabbage

This is one of the most remarkable cabbage introductions that has been brought to our notice for years. In general type and shape of head it resembles very much the well known Danish Ball Head or the Hollander. It differs from these, however, in being extremely early. It is almost as early as the Early Jersey Wakefield, but has heads two or three times as large as this well known early cabbage. This entirely new introduction, on account of its great merit, will undoubtedly very soon become as prominent among early varieties as its winter companion, the Danish Ball Head, is among the later sorts. We recommend this cabbage to every gardener for trial. Packet, 10 cents; ounce, 55 cents.

**COPENHAGEN MARKET**—A new cabbage of great merit. Heads large, round and solid. As early as the cone-shaped varieties and as large as most later sorts. Packet, 10 cents; ounce, 45 cents.

**HOLLANDER OR DUTCH WINTER**—Similar to the Danish Ball Head, but shorter stemmed. Fine in quality, medium size and an excellent winter keeper. Largely grown in all cabbage growing districts.

**DANISH BALL HEAD**—Our seed of this great variety is Danish grown from selected stock of the true tall-stemmed strain. This is distinguished from the Hollander or Dwarf Amager by the length of stem. The heads are round, very solid and of excellent market size. A fine winter keeper.

**PREMIUM FLAT DUTCH**—An improved strain of the old standard Flat Dutch introduced into this country by the early settlers. Not yet improved upon as a large, late sort.

**DANISH STONEHEAD**—The best, largest and surest heading red cabbage. Used mostly for pickling.

Any variety except where noted—packet of 300 or more seeds, 5 cents; ounce, 20 cents; ¼ pound, 60 cents; postpaid.



## Carrot

**Culture**—Sow seed as soon as the ground is warm enough in drills one to two feet apart in the garden and two or three feet apart for field varieties. For field planting they may be sown late in May or early in June. Earlier seeding, however, is preferable. Careful, clean cultivation is required, for if young plants are crowded at all with weeds they will be destroyed.

**DANVERS HALF LONG**—A great favorite for all purposes. One of the best for stock feeding. Very productive on all soils. Roots large and of good quality.

**CHANTENAY**—A medium early carrot, about six inches long, stump-rooted, deep red or dark orange in color, fine grained and sweet. One of the finest in quality for the table.

**EARLY SCARLET HORN**—The popular early variety. Roots small, orange-red, smooth and fine grained.

**OXHEART OR GUERANDE**—A short, thick carrot, very blunt at the apex. Of very good quality for the table and a good yielder.

Any variety— $\frac{1}{3}$  ounce, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 30 cents; pound, 90 cents; postpaid. See "Field Root Crops," page for stock carrots.



Danvers Half Long Carrots

## Cauliflower

The cauliflower is not grown to so large an extent as its value would warrant among our vegetables. There are certain difficulties which present themselves, first of which is that the seed is rather expensive; and, second, it requires good care and attention to produce good heads. The two varieties which we list here are both very early, and with good care will produce good heads in almost any season.

**EARLIEST DWARF ERFURT**—One of the best and earliest varieties. Plants dwarf and compact, with short stems and small leaves. Packet, 10 cents;  $\frac{1}{2}$  ounce, 75 cents; ounce, \$1.25.

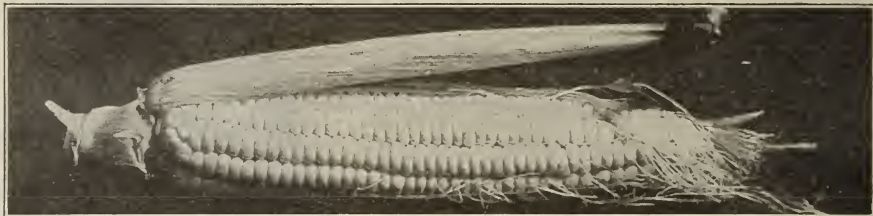
**DISCO-SNOWBALL**—In earliness, reliability in heading, general appearance and size of head this is unequalled. A very popular variety wherever cauliflower is grown. Our special stock of seed comes from one of the most reliable Danish growers. We can recommend it for the most critical gardeners. Packet, 15 cents;  $\frac{1}{4}$  ounce, 60 cents;  $\frac{1}{2}$  ounce, \$1; ounce, \$1.75.



Disco-Snowball Cauliflower

## Sweet Corn

**DISCO GOLD MEDAL SWEETCORN**—An early variety; only a few days or a week later than Malakoff. The stalks are three and one-half to four feet high and average two ears to each stalk. When ready for use the grains are deep yellow and present a very attractive appearance served on the ear. It is without a rival in sweetness and richness of flavor. For several years the yellow grained varieties of sweetcorn were unpopular because of the prejudice in the minds of some people educated up to the white-kernelled sorts. The yellow sorts have, however, steadily won favor strictly on their quality merit. Once tasted they are never forgotten. The Golden Bantam, which was introduced several years ago, has attained a reputation second to no other early variety. The Disco Gold Medal is an improved strain of Golden Bantam. Every lover of Golden Bantam Sweet Corn will like the Disco Gold Medal. Ounce packet, 5 cents;  $\frac{1}{3}$  pint, 10 cents; pint, 25 cents; quart, 40 cents; postpaid. By express or freight—quart, 25 cents; peck, \$1.25.



Disco Gold Medal Sweetcorn

**MALAKOFF SWEETCORN**—The earliest sweetcorn known. Similar to the well known Peep-o-Day. The ears are very small and are borne in large numbers. Single stalks produce from two to four ears each. Ounce packet, 5 cents;  $\frac{1}{3}$  pint, 10 cents; pint, 25 cents; quart, 45 cents; postpaid. By express or freight—quart, 30 cents.

**PEEP-O-DAY SWEETCORN**—Similar to the Malakoff in both character of growth and season. This variety of sweetcorn has been very extensively grown throughout the Northwest for several years and has become very popular. Prices same as Malakoff.

**EARLY MINNESOTA**—The old standard early or second-early variety. Somewhat earlier than Crosby's Early and about a week or ten days later than Malakoff. Quality good; ears eight-rowed, of good size and very regular in form. Desirable for either home use or market.  $\frac{1}{3}$  pint, 10 cents; pint, 25 cents; quart, 40 cents; postpaid. By express or freight—quart, 25 cents.

**DISCO-EVERGREEN**—For years the Evergreen sweetcorn has been the standard late variety for both home use and market. We have in the Disco-Evergreen a specially valuable selection from the Stowell's Evergreen. It is more desirable in every way; more uniform as to type of ear and about a week earlier in ripening; also sweeter and more productive. Having been grown in the Northwest for several years, it is particularly adapted to northwestern conditions. You cannot be disappointed in the type and quality of the Disco-Evergreen. Ounce packet, 5 cents;  $\frac{1}{3}$  pint, 10 cents; pint, 25 cents; quart, 40 cents; postpaid. By express or freight—quart, 25 cents; peck, \$1.25.

**COUNTRY GENTLEMAN**—One of the sweetest late varieties in cultivation. Kernels long, pointed and arranged irregularly on the cob.  $\frac{1}{3}$  pint, 10 cents; pint, 25 cents; quart, 40 cents; postpaid. By express or freight—quart, 25 cents.



Disco-Evergreen Sweetcorn





## Celery

**Culture**—Sow the seed in flats or frames and transplant to the open field. The usual method is to set the plants in rows three to four feet apart, but for the garden they are often grown in beds with the plants six to eight inches apart each way. By the latter method an exceedingly rich soil and a large amount of water are necessary to support the large number of plants to a given area. When full grown the plants should be blanched by packing the earth up around them or by using boards.

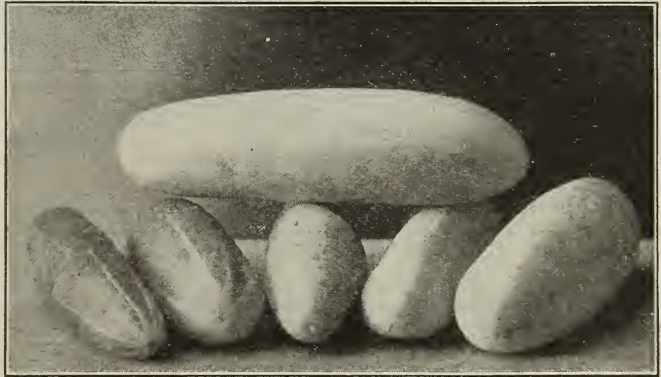
**GOLDEN SELF-BLANCHING**—A very popular early variety of dwarf, compact habit. One of the best in quality and comes nearest to being a truly self-blanching variety of any grown. We recommend this for general culture. Our seed is the choicest French grown. Packet, 15 cents; ounce, \$1.10; postpaid.

**WHITE PLUME**—This is the earliest and one of the most easily blanched varieties grown. Extensively grown for market. Packet, 5 cents; ounce, 20 cents; ¼ pound, 50 cents; pound, \$1.40; postpaid.

## Cucumber

**Culture**—Sow in the open ground when danger of frost is past. Plant from six to twenty seeds in a hill and have the hills from four to six feet apart. The greatest pest of the young plant is the striped beetle, which attacks them just as soon as they are out of the ground. In small gardens the most effective way to check the beetles is to cover the hills with mosquito netting held up with wooden frames. In large plantings scatter dust, lime or ashes on the plants while wet with dew or use paris green sprayed on the plants in very weak solution.

**IMPROVED EARLY WHITE SPINE**—This was the earliest and most productive variety in our trial grounds in 1909. It is without an equal as an all-around early and general crop for home or market. A vigorous grower and prolific cropper. Fruits are remarkably uniform in size, dark green in color and very handsome in appearance. One of the best varieties for slicing and forcing.



Several Varieties of Cucumbers

**CHICAGO PICKLE**—A medium sized variety with prominent spines. A vigorous grower and a prolific producer. Highly esteemed as a pickle variety.

**EARLY GREEN CLUSTER**—Fruit small; grows in clusters of two or three; very prolific; short, dark green.

Any variety—½ ounce, 5 cents; ounce, 10 cents; ¼ pound, 25 cents; pound, 85 cents; postpaid. By express or freight—pound, 75 cents.

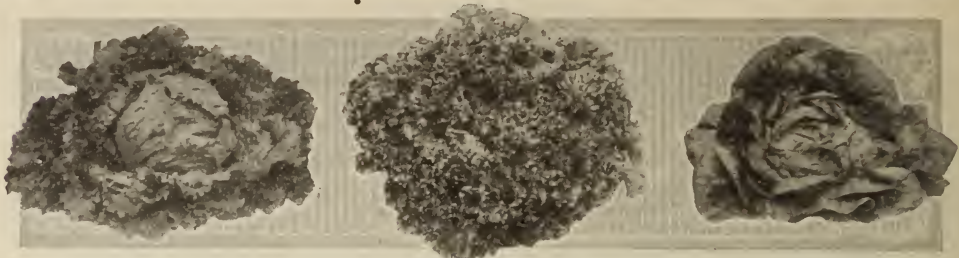
## Pop Corn

**WHITE RICE**—The standard sort for field culture. Our stock is very fine and well selected. Try some on your farm and you will not regret it.

**SNOWBALL**—Ears egg-shaped, very thick, three to four inches in length. Kernels small, round, white. One of the finest popping varieties. Early and productive.

**QUEEN'S GOLDEN**—One of the best varieties. Very productive. Pops into large, flaky, white kernels of fine texture and creamy white.

Either variety—½ pint, 10 cents; pint, 25 cents; by mail, postpaid. By express or freight—quart, 25 cents.



Hanson

Grand Rapids

California Cream Butter

## Lettuce

**Culture**—Seed can be sown almost any season of the year, though early spring is the most desirable time, as a moist atmosphere is required for the best development. Sow the seed thickly in drills from six to twelve inches apart. For early use pick leaves directly from the plants. Later thin the plants in the row or transplant from six to eight inches apart. Grown this way, they will develop heads or bunches which are much better in quality than those grown thickly in the row. Rapidity of growth is necessary to produce tender, edible plants. Plenty of water and rich soil are of the greatest importance.

**MAY KING**—One of the best varieties for spring planting, forming large, round, solid heads very quickly in cool weather. The leaves are tender and of fine flavor. We know of none better as an early variety.

**GRAND RAPIDS**—Character of growth similar to the Black Seeded Simpson, from which it was developed by more than fifteen years' selection. To a large extent this variety has replaced the older Black Seeded Simpson. It is often difficult to secure a good germination with the Grand Rapids. In spite of this fact it is the most popular variety we know of today. Every one likes it.

**BLACK SEEDED SIMPSON**—A crisp, light green bunch lettuce. Leaves broad, very much crumpled, twisted and frilled. Ranks as one of the four most largely planted varieties in the United States.

**CALIFORNIA CREAM BUTTER**—One of the best summer varieties of head lettuce. Forms round, crisp, solid heads of very fine flavor. In our trials this variety has not been excelled by any other tried, either in productiveness or quality.

**PRIZEHEAD**—Probably grown to a larger extent than any other variety in the United States, especially in the West. A large, early bunch lettuce, brown in color, crisp, tender and of good flavor. Recommended for spring and early summer planting.

**HANSON**—A very large, late, cabbage-heading variety; very crisp and firm in texture; quality sweet and good. This is the standard summer head lettuce and succeeds everywhere. Its popularity is attested by the fact that it has been listed by over 200 seedsmen in this country, and ranks as one of the three most largely grown varieties in the United States.

**MIXED**—A number of standard varieties in mixture.

Any variety—Packet, 5 cents; ounce, 10 cents; ¼ pound, 30 cents; pound, 80 cents; postpaid.

**EGG PLANT—EARLY DWARF PURPLE**—This is the earliest and one of the most productive varieties. The fruits are purple and average eight to ten ounces in weight. About the only variety that is sufficiently early to be grown in the Northwest. Packet, 5 cents; ounce, 50 cents; postpaid.

**ENDIVE—WHITE CURLED**—Adapted for early use; does not need blanching; the finest cut and curled, leaves being almost white. Packet, 5 cents; ounce, 15 cents; postpaid.

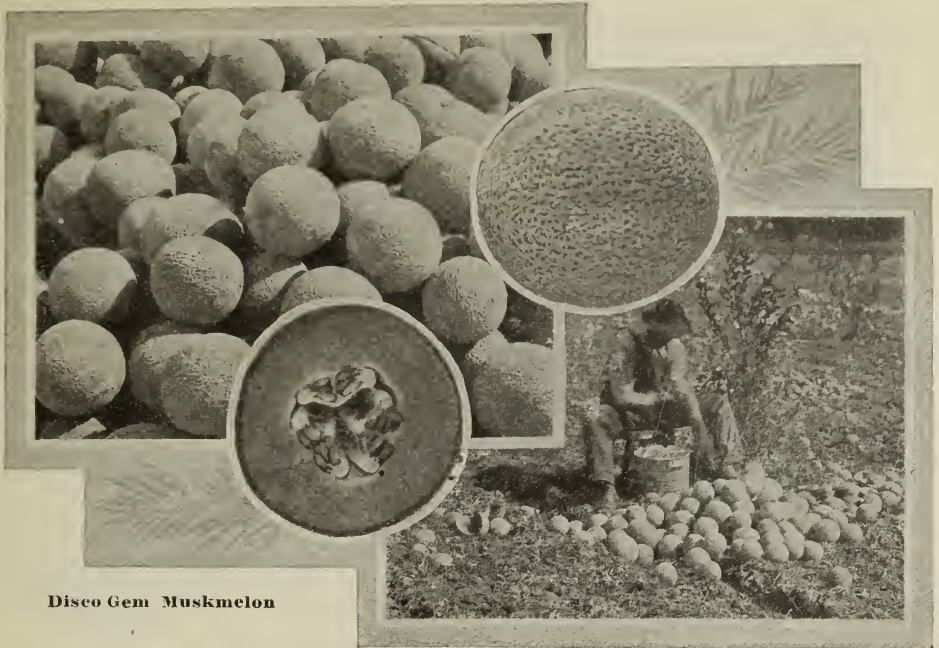
**KALE or BORECOLE—CURLED MOSBACH**—A rather dwarf, compact sort with light green foliage. Packet, 5 cents; postpaid.

**KOHL-RABI—EARLY WHITE VIENNA**—The best sort for table use. Of fine appearance and very early. Packet, 5 cents; ounce, 25 cents; postpaid.

**LEEK—LARGE AMERICAN FLAG**—The best and most popular variety. A quick, strong grower. Packet, 5 cents.



### Muskmelon



Disco Gem Muskmelon

### Disco - Gem

A special strain of the well known Rocky Ford or Netted Gem melon. It has been developed by hybridization between two distinct strains and by continued selection for several years. It combines the two characteristics of early maturity and disease resistance which were present in the parent varieties. This strain has a remarkable vigor of growth until it has set and developed a large set of fruit, and then the growth seems to stop; that is, the new shoots, the vines seeming to throw all the force into the development of the fruit. This trait seems to make it desirable in one point, as it has not been so seriously attacked by the melon aphid as the strains that have plenty of young, succulent shoots. This strain has been tested in many parts of the country, where it has been pronounced the best cantaloupe that ever grew. The quality is extra sweet and good. The flesh is green. The form and size are not quite as uniform as in some of the older bred strains. 1/3 ounce, 10 cents; ounce, 20 cents; 1/4 pound, 65 cents; pound, \$2; postpaid.

**ROCKY FORD**—First introduced as Netted Gem, but now more commonly called Rocky Ford, after the place in Colorado made famous by its melons. Fruits small, oblong or oval in shape, well ribbed and very heavily netted, the netting turning to a silver color when ripe. The skin is hard and firm, making it an excellent shipper. Flesh is green in color and of the best quality.

**BURRELL'S GEM**—Another fine melon from Rocky Ford, Colo., the home of the famous Rocky Ford muskmelon. This variety is unsurpassed in quality and also for shipping. It has reddish orange flesh and small cavity. Melons weigh about two pounds each.

**EMERALD GEM**—An extra early melon of small size; smooth, emerald green skin and thick, salmon colored flesh. This is the richest flavored melon in cultivation. Valuable for the home garden on account of its earliness and fine quality.

**EXTRA EARLY HACKENSACK**—The standard very early variety and very popular for both home use and market. The melons are of fair size, nearly round in shape, flattened at stem and blossom ends; heavily ribbed and netted. Flesh green and of good flavor.

**EARLY GREEN NUTMEG**—Very early; flesh green; very sweet; of good flavor. This was the earliest variety in our trial grounds last year and bore well throughout the season. Valuable for both home use or market.

Any variety, except Disco Gem—1/3 ounce, 5 cents; ounce, 10 cents 1/4 pound, 30 cents; pound, \$1; postpaid.



"Life on the Claims" and Gardens That Are Gardens

## Watermelon

**COLE'S EARLY**—The earliest watermelon in cultivation. Can be grown in all the northern states. Valuable for both home and market use where larger varieties will not mature. A larger acreage of this melon is grown in the Northwest every year than of any other variety.

**FORDHOOK EARLY**—The earliest large fruited melon. Fruits of good size, green skin and red flesh. A good shipper. Recommended for planting in South Dakota and southern Minnesota.

**RED SEEDED RUSSIAN**—A medium size early melon of excellent quality. Raised almost exclusively by the Russian colonists in South Dakota and sold by them in the local markets. A very popular variety among those who are acquainted with its desirable qualities.

**KLECKLEY'S SWEET**—The sweetest of all watermelons. The fruits are very large in size and dark green in color. The flesh is bright scarlet and of a very fine texture. Not early enough for the extreme north, but suitable for the latitude of Mitchell and south of this. Several carloads of these melons are grown near Mitchell every season.

**LONG LIGHT ICING**—A melon of extremely fine quality and very productive. This is one of the best general crop market varieties. It has been grown extensively in the vicinity of Mitchell for the past few years and has become very popular.

**SWEETHEART**—Rather late for our vicinity. A fine, large melon. For market and shipping it is among the best and will remain in condition for use longer than most others.

**CITRON**—Fruit round and smooth. Is not eaten raw. Used for preserves only.

Any variety— $\frac{1}{2}$  ounce, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 20 cents; pound, 60 cents; postpaid.

## Okra or Gumbo

**Culture**—Sow in June in drills two and one-half feet apart. When the plants are up thin to ten inches in the row. The pods should be gathered before they become stringy. If the pods are kept gathered when young the plant will remain in bearing a longer time.

**WHITE VELVET**—Produces large, round, smooth pods, velvety white in color. Packet, 5 cents; ounce, 10 cents; postpaid.

## Parsley

**Culture**—Sow the seed as early as desirable, either in a cold frame or in the open ground. Soak the seed in warm water a few hours before sowing; have the soil thoroughly pulverized and pat it down lightly around the seed. Thin the plants to four inches in the row and cultivate same as carrots.

**MOSS CURLED**—This variety is densely crumpled and curled and has dark green leaves. Packet, 5 cents; ounce, 10 cents; postpaid.



## Onion

**Culture**—No other crop responds to good care as the onion. For very early use the sets give the best returns. These should be planted three or four inches apart in rows one foot apart. For general crop sow the seed as early as the ground can be worked in the spring in drills from one foot to eighteen inches apart. Cultivate early and thoroughly, but do not cover the plants with soil when cultivating. Shallow cultivation is better than deep. A clean soil, plenty of water and thorough surface cultivation are necessary to raise a good crop.

**PRIZETAKER**—This onion is of immense size, globular in shape, hard and firm. The skin is straw yellow in color and the flesh is fine grained and of excellent flavor. A fairly good keeper, but not equal to the Red Wethersfield, Red Globe or Yellow Globe Danvers in this respect.

**MAMMOTH SILVER KING**—A large white Italian sort with tender white flesh. It grows quickly and matures rather early. It is one of the most striking onions in appearance and is valuable for marketing in autumn and early winter.



Disco Globe Onions.

**LARGE RED GLOBE**—By many this is considered the finest red sort. It is perfectly globular in shape and of large size. Skin is dark blood red in color. It is a splendid keeper and the quality is excellent. In western markets this brings the highest price. For general crop, either in the home garden or for market, this variety should occupy the most prominent place.

**DISCO GLOBE**—A specially selected strain of the Large Red Globe Onion, grown in South Dakota under the most critical supervision. Packet, 10 cents; ounce, 40 cents; ¼ pound, 90 cents; pound, \$3.00; postpaid.

**LARGE RED WETHERSFIELD**—This variety is the popular red onion usually found in all markets. It is medium early and is a very good keeper. It is probably the largest and hardest of the American varieties of onions. It will yield a good crop when many others will fail because of the unfavorable conditions.

**YELLOW GLOBE DANVERS**—This is the standard yellow globe onion seen in most of our markets. No other varieties seem to be able to displace it and its companion, the Large Red Wethersfield. Both are hardy, good croppers and excellent keepers, and seldom fail to give good returns.

**WHITE BARLETTA**—A very early white onion, grown for early bunch onions and also for pickles.

**SOUTHPORT WHITE GLOBE**—A very beautiful white onion. Though not as good a keeper as some of the red and yellow sorts, it is a very popular onion for early market. Packet, 5 cents; ounce, 35 cents; ¼ pound, 80 cents; pound, \$2.50; postpaid.

Any variety, except where noted—packet, 5 cents; ounce, 25 cents; ¼ pound, 60 cents; pound, \$1.85; postpaid.

## Onion Sets

Very desirable for planting to secure very early onions for the table. A quart or two is sufficient for an ordinary sized family.

**BOTTOM SETS**—Red or yellow sets, per quart, 30 cents; white sets, per quart, 35 cents; postpaid. Write for prices on larger quantities.



## Peas

**Culture**—Make an early sowing of one of the early peas like Earliest of All, and follow this very soon after with one of the early wrinkled sorts and one of the general crop sorts. Sow every week or ten days up to the 1st or middle of June. In this way one can have peas through the summer months. Sow in single or double rows eighteen inches to three feet apart. For very early planting place the seeds about one inch deep and have the later plantings from two to four inches deep. Place the seed two to three inches apart in the row. Cultivate thoroughly as soon as the peas are up, and until the vines take up the space.

**FIRST AND BEST**—This is the earliest and best strain of smooth white peas. Seeds are small, smooth and white. Vines are vigorous, about two and one-half feet high, and bear profusely of medium sized pods, each containing five to seven peas.

**ALASKA OR EARLIEST OF ALL**—This is one of the best early peas grown. It is very productive and matures the entire crop almost at one time, so that it can be gathered in two pickings. It is of good quality for a very early pea. Height, two to two and one-half feet.

**AMERICAN WONDER**—An early, wrinkled pea of finest quality. The vines are extremely dwarf in growth, varying from ten inches to two feet in height, depending upon the soil in which they are grown. It is one of the earliest dwarf wrinkled peas and follows closely upon the Earliest of All.

**SURPRISE**—One of the earliest of all wrinkled peas. Pods are not so large as the American Wonder, but more numerous. This is not so well known as the older American Wonder, but is rapidly taking the place of the older variety. Height one and one-half to two feet.

**PREMIUM GEM**—A very dwarf wrinkled pea. An old variety, but still in great demand. Nearly as early as American Wonder. Grown in nearly every private garden in the West. Height, one to one and one-half feet.

**NOTT'S EXCELSIOR**—Of the dwarf early wrinkled peas there is none better for general culture in the Northwest than Nott's Excelsior. Pods average three inches in length

and are well filled with very large peas of unusually good quality. Wherever this variety has been grown in South Dakota it has given the best of satisfaction, either for the home garden or for market. Height, one to one and one-half feet.

Any variety listed above— $\frac{1}{2}$  pint, 10 cents; pint, 25 cents; quart, 45 cents; postpaid. By express or freight—quart, 30 cents; peck, \$1.75. Prices on larger quantities furnished on application.



Nott's Excelsior Peas





## Parsnip

**Culture**—Sow the seed as early in the spring as the ground can be worked, in drills twelve to eighteen inches apart. Have the ground thoroughly prepared by deep plowing and good cultivation before sowing the seed. The plants are somewhat slow in starting from seed, but when once started they are comparatively easy to care for and well repay the labor expended in growing them. The roots may be dug from the field in the fall or early spring.

**IMPROVED GUERNSEY**—A heavy cropper; flesh fine grained and of good quality. Roots are not so long as the Hollow Crown, but thicker and more easily gathered.

**HOLLOW CROWN**—This is the standard market gardener's strain. It is very sweet and of good flavor.

Either variety— $\frac{1}{3}$  ounce, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 20 cents; pound, 60 cents; postpaid.

## Pepper

**BULL NOSE**—A prolific, rather early variety, bearing large scarlet fruits. Earlier than the Ruby King.

**CHILI**—Very productive; fruits very small, very red and very hot.

**RUBY KING**—The most popular large red pepper. Plants grow two feet high and produce a crop of handsome, large scarlet fruits. Flesh sweet, tender and mild.

**GOLDEN DAWN**—A beautiful yellow pepper, resembling the Bull Nose in shape, but golden yellow in color.

Any variety—Packet, 5 cents; ounce, 30 cents; postpaid.

## Pumpkin

Among the varieties of pumpkin that are grown, the Connecticut Field is probably the most desirable one for field planting in our latitude. As pie pumpkins we especially recommend the Japanese and the Small Sugar as the two that have especially demonstrated their value as to productiveness, early maturity and quality.

**Culture**—Same as for cucumber. The hills should be eight or more feet apart. Field varieties are commonly grown in cornfields by sowing seeds in every third or fourth hill.

**CONNECTICUT FIELD**—This is the earliest field pumpkin. Immensely productive and commonly grown in cornfields for stock feeding. Also good for pies. Ounce, 5 cents;  $\frac{1}{4}$  pound, 15 cents; pound, 50 cents; postpaid. By express or freight—pound, 40 cents; 10 pounds or over at 35 cents per pound.

**KING OF THE MAMMOTHS**—A pumpkin of immense size. Matures rather late for the extreme north. Flesh is thick, bright yellow, fine grained and excellent for pies.  $\frac{1}{4}$  ounce, 5 cents; ounce, 20 cents;  $\frac{1}{4}$  pound, 50 cents; pound, \$1.25; postpaid.



Small Sugar Pumpkin



Connecticut Field Pumpkin

**JAPANESE PIE**—This variety is both curious and useful. The skin is deep green, with dark stripes which turn to golden yellow. Seeds are peculiarly marked. The seed cavity is small and the neck is solid flesh. Matures early and is of the finest quality. We know of no better pie pumpkin.  $\frac{1}{2}$  ounce, 5 cents; ounce, 15 cents;  $\frac{1}{4}$  pound, 30 cents; pound, 75 cents; postpaid.

**SMALL SUGAR**—The standard pie pumpkin, resembling the field variety in color and shape, but of very much smaller size, averaging from eight to twelve inches in diameter. Is as fine grained as average squash and of excellent flavor.  $\frac{1}{2}$  ounce, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 20 cents; pound, 60 cents; postpaid.



## Radish

For extremely early growing the small globe or olive-shaped varieties and the Icicle are the best. For later spring and early summer some of the long rooted varieties give better results for the ground occupied. The Icicle and Rosy Gem are the most popular very early sorts for both forcing and early planting in the open ground.

**Culture**—Sow as soon as the ground can be worked in the spring, in rows eight to ten inches apart. Sow at intervals of a week or ten days for a succession up to the middle of June.

**SCARLET GLOBE**—A very popular, extremely early, globe-shaped radish, maturing in about twenty-five days. Very desirable for early sowing in open ground or for forcing.

**ROSY GEM**—A handsome, globe-shaped variety of rosy scarlet, shading to white at the tip. The beautiful red roots with the pure white tips present a very attractive appearance, either on the table or as offered for sale on the market.

**FRENCH BREAKFAST**—One of the standard early radishes. Roots of oblong shape, red above changing to clear white in the lower portions.

**WHITE ICICLE**—This is becoming one of the most popular radishes grown. Its earliness, attractive appearance and excellent quality make it one of the most valuable of all radishes. It remains in fine condition longer than any other first early. It is not only the best early variety, but is one of the best general crop varieties as well. In our trial grounds this year our stock of Icicle was ahead of all other varieties tested.

**CHARTIER**—The largest and handsomest summer sort. The roots are long, crimson, tipped with white. The hardiest sort for summer culture.

**SCARLET CHINA WINTER RADISH**—The standard winter variety.

Any variety— $\frac{1}{2}$  ounce, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 25 cents; pound, 65 cents; postpaid.



White Icicle Radish

## Rhubarb or Pie Plant

**Culture**—Sow the seed in rows a foot apart in May. When the plants are well up thin to six inches in the row. Cultivate thoroughly. The following spring transplant to rows five feet apart, with plants three feet apart in the row.

**MAMMOTH**—This variety is vigorous and productive. Stalks twelve to fifteen inches long, one inch or more thick. An excellent sort for pies or sauce. Packet, 5 cents; ounce, 10 cents; postpaid.

## Salsify or Vegetable Oyster

**Culture**—Sow as early as the ground can be worked, in drills twelve inches to two feet apart. Later thin to five inches in the row. Cultivate thoroughly. Roots that are to be used in the winter should be stored in a cool cellar. Those desired for spring use should be left in the ground over winter and dug as soon as frost is out.

**MAMMOTH SANDWICH ISLAND**—Roots large and of superior quality. Delicate in flavor; double the size of the old variety. Packet, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 30 cents; pound, 90 cents; postpaid.

## Spinach

**Culture**—Sow in the early spring, in drills a foot apart; thin out freely for use. It should be used in the spring and early summer, for it becomes tough later. It can also be easily grown in the early fall.

**LONG STANDING**—Leaves large and thick; dark green in color. Remains in edible condition longer than any other sorts. Best for spring growing. Packet, 5 cents;  $\frac{1}{4}$  pound, 15 cents; pound, 45 cents; postpaid.





## Squash



Disco-Hubbard

### Disco-Hubbard

Our special strain of this well known variety is the best that can be obtained anywhere. The seed is produced by one of our best growers. By careful selection he is able to maintain a much higher standard of purity and productiveness than can be obtained from ordinary stock.

**GOLDEN HUBBARD**—This variety is similar to the Hubbard, but has a skin of bright red color. It is somewhat smaller and earlier than the common Hubbard, but is equally as productive and fine in quality.

**DELICIOUS**—No squash excels this in firmness and compactness of grain, dryness, sweetness and richness of flavor. An excellent winter squash for general culture.

**MAMMOTH CHILI**—The Mammoth Chili is the largest variety of squash grown. If you wish to take the premium at your state or county fair on the largest squash, try this.

**MAMMOTH WHITE BUSH**—A large strain of the Early White Bush summer squash. Nearly as early as the smaller strains and about twice the size.

**YELLOW SUMMER CROOKNECK**—A true bush in habit of growth. Very early and productive.

Any variety listed above— $\frac{1}{3}$  ounce, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 30 cents; pound, 90 cents; postpaid.

## Turnip

Both the English and the Swede turnip or rutabaga are desirable garden crops, and the latter is also desirable for stock feeding. One feature about turnips is that they can be sown very late in the season and can follow some of the earlier crops in gardens where space is a consideration.

**EXTRA EARLY PURPLE TOP MILAN**—The earliest English turnip in cultivation. Roots flat, white; purple top.  $\frac{1}{2}$  ounce, 10 cents; ounce, 15 cents;  $\frac{1}{4}$  pound, 30 cents; pound, 80 cents; postpaid.

**PURPLE TOP STRAP LEAF**—The popular fall flat sort. More largely grown than any other variety.

**PURPLE TOP WHITE GLOBE**—Globe shaped, smooth, white. A good keeper.

**GOLDEN GLOBE RUTABAGA**—Very similar to the Purple Top Yellow, except in the color of the crown, which is green instead of purple. An excellent variety and a good yielder.

**PURPLE TOP YELLOW RUTABAGA**—A hardy and productive variety. A good strain.

Any variety, except the Early Milan— $\frac{1}{3}$  ounce, 5 cents; ounce, 10 cents;  $\frac{1}{4}$  pound, 20 cents; pound, 60 cents; postpaid.

For field varieties, see "Field Root Crops," page 10.



## Disco-Thornber Tomato

No one variety of vegetable introduced by us has given more general satisfaction than the Thornber tomato. It has been grown by Mr. A. E. Thornber of Brookings County, S. D., for twelve years. He has continually selected it for uniformity in shape and for large size, and at the same time has looked to the point of earliness, so that it today ranks as the earliest large fruited variety we know of. The plants grow very large and spread on the ground. The foliage is plentiful and medium light in color. The fruits are large, red, solid and smooth. Many of them weigh from three-quarters to one and one-half pounds each and there are very few seeds. Wherever it has been tried it has given perfect satisfaction, so we feel entirely justified in placing back of it our unqualified recommendation. Sold only in sealed packets of about 300 seeds at 15 cents per packet.

**Yakima.** The earliest of all tomatoes. In shape and size the Yakima is not equal to the Thornber, but it is very much better in this respect than any other early tomato. A peculiarity of the plant is that it spreads in such a way as to expose the fruit to the sun so that it ripens very quickly and evenly. The foliage is not so rank as on some other varieties. Packet, 10 cents;  $\frac{1}{2}$  ounce, 60 cents; ounce, \$1.00.

**Field's Early June.** Similar to the Disco-Thornber. The introducer of this tomato says: "A new early tomato, earlier than Earliana, large and smooth as Stone, and solid as Ponderosa." In our trials this has proved one of our best. Packet, 10 cents;  $\frac{1}{2}$  ounce, 60 cents; ounce, \$1.00.

**Earliana.** The earliest smooth, bright red tomato among the standard varieties. Fruits average about three inches in diameter and are somewhat flattened. Packet, 5 cents;  $\frac{1}{2}$  ounce, 20 cents; ounce, 30 cents.

**Chalk's Early Jewel.** This is considered as the best early red tomato among the standard varieties. A very prominent seedsman who is particularly familiar with tomatoes, when visiting our grower last season, made the statement that if there would be but one tomato grown, he would suggest it be the Chalk's Jewel. Our seed is extra fine. Packet, 5 cents;  $\frac{1}{2}$  ounce, 25 cents; ounce, 40 cents.

**Improved Acme.** The best general crop purple tomato. Our stock has been selected for earliness and smoothness by our grower for many years and is the best that can be secured anywhere. Ripens very soon after Chalk's Jewel. Packet, 5 cents;  $\frac{1}{2}$  ounce, 25 cents; ounce, 40 cents.

**Dwarf Champion.** A very distinct medium early tomato. Plants are dwarf, having stiff, bushy stem and thick, deep green leaves. Very different from the common varieties. Packet, 5 cents;  $\frac{1}{2}$  ounce, 20 cents; ounce, 30 cents.

**Ponderosa.** Largest fruited variety in cultivation. Fruits are deep purple in color and have small seed cavities containing very few seeds. We have grown fruits to weigh over two pounds. Packet, 5 cents;  $\frac{1}{2}$  ounce 25 cents; ounce, 40 cents.

**Golden Queen.** A very good, large, smooth, yellow tomato of mild flavor. Packet, 5 cents.

**Yellow Pear.** Fruits are small, yellow, pear-shaped. Very productive. Packet, 5 cents.

**Ground Cherry.** A husk tomato. An old standard garden fruit greatly valued for preserves. When ripe it is one-half an inch in diameter and very sweet. Excellent to eat out of hand. Packet, 5 cents;  $\frac{1}{2}$  ounce, 30 cents; ounce, 50 cents.



5-PRONG—3-PRONG—MIDGET  
3 Lbs.—2 Lbs.—12 Ozs.

“Norcross” Garden Cultivator, Hoes and Weeders

Close hand cultivation is best, and Norcross Cultivator Hoes and Weeders are like a human hand, the fingers of which work closely around the delicate plants without injuring them, stirring the soil to any depth and leaving it level and loose, without a footprint upon it.

PRICES  
75c—50c—25c

Five-prong Hoe, four-foot handle; weight, 3 pounds. Price..... 75c  
Three-prong Hoe, four-foot handle; weight, 2 pounds. Price..... 50c  
Three-prong Midget Weeder, nine-inch handle; weight, 12 oz. Price. 25c

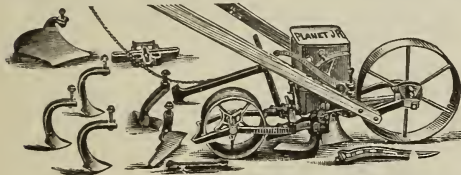
By express or freight, charges paid by receiver.



The new “Planet Jr.” catalog is the handsomest, best and most instructive book ever issued on a similar subject. Full of little points that bring profit. Full of true and handsome illustrations. We mail it free to any address on application. The No. 4 combination tool listed here is only one of many described in catalog.



No. 4 “Planet Jr.” Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow



This tool combines in a single convenient implement a capital hill-dropping seeder, a continuous row seeder, an admirable single wheel hoe, an excellent furrower, a capital wheel cultivator and a rapid and efficient wheel garden plow.

Weight, 53 pounds. Price, complete.. \$10.50  
As a seeder only; holds 2½ quarts of seed..... 8.50

Columbia Planter



The Columbia Planter is a machine that will sow accurately any kind of seed both small and large, and in about any quantity a person would desire. There is a little book published that goes with this machine telling about this machine and the seeds that can be sown. This will be furnished to anybody upon inquiry. One great advantage of this machine over all other makes is that it will sow a single package of most seeds as well as a pound-lot.

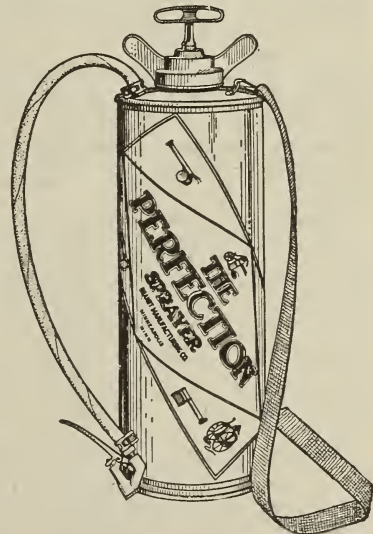
This point appeals particularly to the small gardener. The best model for the general gardener is the No 3 machine which we offer F. O. B. Mitchell, S. D., at \$11.75, or F. O. B. Springfield, Ohio, at \$10.75.

The “Perfection” Sprayer  
The Strongest and Most Powerful  
Sprayer Made

This is a sprayer of the high pressure type. Capacity, four gallons; weight, nine and one-half pounds; tested to sixty pounds before leaving factory. Built of galvanized steel or all brass, as ordered.

This sprayer will handle whitewash, water, paints, Bordeaux mixtures, etc., perfectly. For whitewash and all heavy mixtures, use the extra nozzle cap which comes with the sprayer. By using a nozzle extension trees can be sprayed and high rooms whitewashed. These extensions come in two eighteen inch pieces; one or both may be used.

Perfection Sprayer, galvanized, with single nozzle. \$5.00  
Perfection Sprayer, galvanized, with double nozzle. 6.50  
Perfection Sprayer, brass, with single nozzle.... 6.75  
Perfection Sprayer, brass, with double nozzle.... 8.25  
Extras—Tree nozzle, \$1.50; No. 4 Bordeaux nozzle, 75c.



Send for catalogs of Garden Tools and Implements of all kinds. Tell us what you want and we will get it for you.

# BLATCHFORD'S CALF MEAL

THE PERFECT MILK SUBSTITUTE

Will raise three calves at the cost of one where whole milk is used. The most profitable feed on the market for the farmer.

## 100 Pounds Makes 100 Gallons of Rich, Nutritious Gruel

The time is past when calves can be raised at a profit on whole milk. Today the milk is worth far more for other purposes; the cities are calling for it; creameries, cheese factories and condenseries cannot get enough, and all of them paying good prices.

### Sell Your Milk and Raise or Veal Your Calves on Blatchford's Calf Meal at 1-3 the Cost

This meal is a result of over 100 years' experience in feeding calves, and over 2,000 tons were fed in New York state alone last season, indicating the quality and general satisfaction it is giving. Testimonials from all over the world. Make your calves show you a good profit this winter and spring.

PRICES, F. O. B. MITCHELL, S. D.:

100 lb. bag, \$3.50

50 lb. bag, \$2.00

25 lb. bag, \$1.00

On 500 pound shipments freight will be prepaid to any point east of the Missouri River in South Dakota, Minnesota, Wisconsin, Iowa and Illinois.

FOR SALE BY

Dakota Improved Seed Co., State Agents for So. Dak.

## Poultry Feeds and Supplies

We are headquarters for poultry supplies of all kinds. We haven't space here to give descriptions and prices of our full line but would request that you write for prices, telling just what you want, and we will give you quotations and will send descriptive circulars and catalogs wherever possible.

**B-B Laying Ration.** A perfectly balanced ration for dry hopper feeding of laying hens. 50 lb. bag, \$1.25; 100 lb. bag, \$2.25, F. O. B. Mitchell, S. D.

**B-B Chick Ration.** A well balanced, scientifically prepared food for dry hopper feeding of young chicks from 3 days to 12 weeks old. 50 lb. bag, \$1.35; 100 lb. bag, \$2.50, F. O. B. Mitchell, S. D.

**Buckeye Incubators and Brooders.** Complete catalog will be sent on request. Incubators from \$10.00 up and Brooders from \$2.00 up.

**Disco Disinfectant.** A perfect disinfectant for all purposes about stable and poultry yard. Absolutely not poisonous, disinfects, cleanses, purifies, sterilizes, heals, kills lice and mites on all domestic animals. Quart can, 40 cents; ½ gal. can, 75 cents; 1 gal. can, \$1.25; 5 gal. can, \$5.50. One gallon makes 100 gallons disinfectant.

**Disco Lice Powder.** There is no humbug about this. It is a real lice powder that kills the lice. Pound package, 25 cents; postpaid, 35 cents; 5 packages for \$1.00 by express or freight.

**All-Rite Sanitary Fountain and Feeder.** For use with mason jars. 15 cents each, 2 for 25 cents; postage 7 cents each extra.

**Cone-Top Drinking Fountain.** One of the simplest and most satisfactory fountains on the market. Prices, by freight or express. 1-quart size, each, 20 cents; half dozen, \$1; dozen, \$1.85; 2-quart size, each, 25 cents;

half dozen, \$1.35; dozen, \$2.50; 3-quart size, each, 30 cents; half dozen, \$1.60; dozen, \$3.00.

**Sanitary Metal Brood Coops.** These brood coops are made of galvanized steel, constructed in a knock-down form, are easily taken apart or cleaned. No. 1 Coop, 17½ x 23 inches on the ground, 16 inches high in front and 12 inches in the back, each, \$1.75; No. 3 Coop, 23½ x 29 inches on the ground, same height as No. 1, each, \$2.50.

**Grit and Shell Box.** This box has three compartments. By freight or express; each, 50 cents; half dozen, \$2.75; dozen, \$4.90.

**Dry Food Hopper.** This hopper is specially adapted to feeding our B-B Laying Ration. The hopper is similar in shape to the grit and shell box, but is larger, holding about 7 quarts. It has two compartments, one small and one large. By freight or express; each, 75 cents; half dozen, \$4.

**Double Clinch Leg Bands.** The only safe way to know your flock is to use numbered leg bands and keep a record of each individual. Prices, postpaid: 12 for 15 cents; 25 for 25 cents; 50 for 40 cents; 100 for 65 cents.

**H. and D. Fancy Egg Box.** Prices, 15-egg size, each, 15 cents; 6 for 70 cents; dozen, \$1.25; 30-egg size, each 20 cents; 6 for \$1; dozen, \$1.75; 50-egg size, each, 30 cents; 6 for \$1.25; dozen, \$2.25.

**Lice Killer Nest Eggs.** A boon to the poultry raiser as well as to the lice-infected fowls. Keeps lice out of nests and off from hens. Price, 5 cents each; postpaid, 10 cents each. By express or freight, 50 cents per dozen.

**Sulphur Fumigating Candles.** Easy to light, easy to extinguish and safe to use, and very effective as a disinfectant. Price, 10 cents each; by mail, postpaid, 15 cents.

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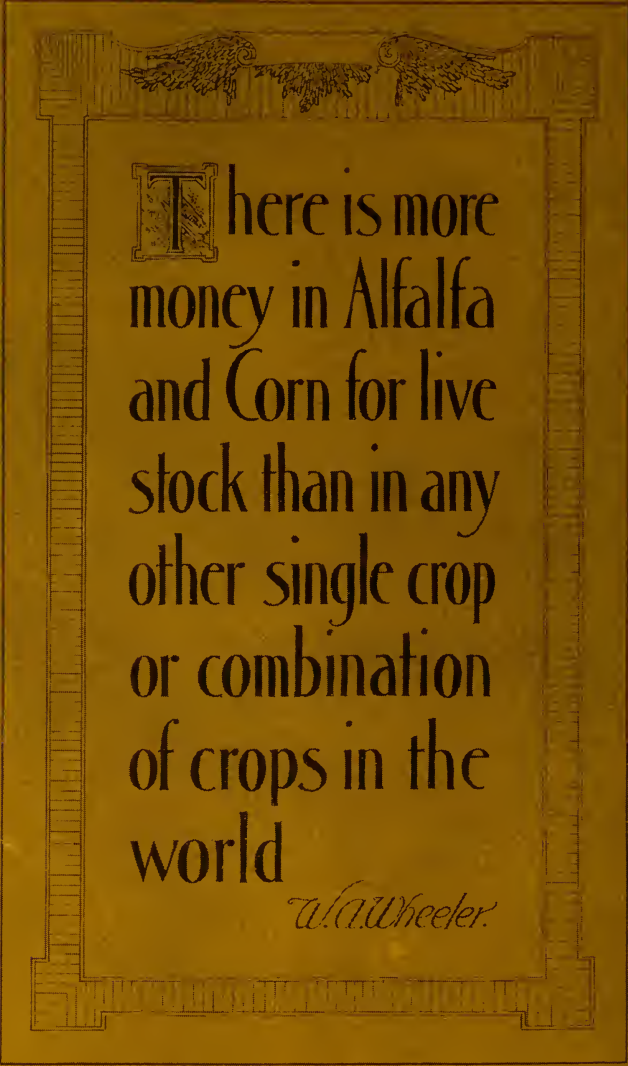
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## FREIGHT RATES FROM MITCHELL, S. D., IN EFFECT JANUARY 1, 1914.

Given in Cents per 100 Pounds, Less than Car Lots.

Garden seeds, grass and clover seeds, cane seed and potatoes go as third class; grain, corn and feeds as fourth class.

	S. D.	3d	4th		S. D.	3d	4th			3d	4th
Salem, .....		.16	.12	Yankton, .....		.22	.17	Lincoln, .....	Neb.	.55	.45
Sioux Falls, .....		.21	.16	Elk Point, .....		.27	.20	Omaha, .....	"	.46	.35
Woonsocket, .....		.15	.11	Bridgewater, .....		.15	.11	O'Neill, .....	"	.74	.59
Wolsey, .....		.19	.14	Canton, .....		.21	.16	Terry, .....	Mont.	.97	.74
Redfield, .....		.22	.18	Flandreau, .....		.27	.20	Miles City, .....	"	1.04	.79
Aberdeen, .....		.28	.21	Howard, .....		.20	.16	Musselshell, .....	"	1.34	1.11
Bowdle, .....		.36	.27	Bradley, .....		.34	.26	Lewiston, .....	"	1.42	1.18
Mobridge, .....		.40	.30	Andover, .....		.32	.24	Butte, .....	"	1.50	1.26
Orient, .....		.39	.29	Milbank, .....		.41	.30	Billings, .....	"	1.34	1.11
McLaughlin, .....		.54	.46	Watertown, .....		.34	.26	Le Mars, .....	Iowa	.30	.23
Lemmon, .....		.65	.51	Faulkton, .....		.34	.26	Eagle Grove, .....	"	.51	.38
Plankinton, .....		.14	.10	Gettysburg, .....		.39	.29	Sanborn, .....	"	.35	.27
Chamberlain, .....		.21	.16	Hettinger, .....	N. D.	.72	.55	Rock Valley, .....	"	.27	.21
Kennebec, .....		.32	.26	Linton, .....		.53	.41	Manilla, .....	"	.46	.34
Murdo, .....		.49	.42	Edgeley, .....		.47	.36	Charles City, .....	"	.43	.37
Belvidere, .....		.57	.49	Oakes, .....		.41	.31	Cedar Rapids, .....	"	.57	.45
Rapid City, .....		.73	.64	Fargo, .....		.68	.52	Des Moines, .....	"	.53	.41
De Smet, .....		.24	.18	Grand Forks, .....		.94	.72	Sioux City, .....	"	.30	.22
Huron, .....		.24	.18	Wahpeton, .....		.61	.47	Chicago, .....	Ill.	.67	.47
Miller, .....		.30	.22	Jamestown, .....		.96	.74	St. Louis, .....	Mo.	.71	.52
Pierre, .....		.39	.29	Minot, .....		1.12	.92	Buffalo, .....	N. Y.	.97	.68
Philp, .....		.75	.59	Worthington, .....	Minn.	.30	.23	Dallas, .....	Tex.	1.51	1.31
Underwood, .....		.87	.73	Winona, .....		.43	.37	Denver, .....	Colo.	1.10	.87
Belle Fourche, .....		.97	.81	Minneapolis, .....		.43	.37	Casper, .....	Wyo.	1.60	1.33
Buffalo Gap, .....		.96	.79	Duluth, .....		.66	.47	Leavenworth, .....	Kan.	.64	.47
Dallas, .....		.82	.65	Marshall, .....		.43	.37	Milwaukee, .....	Wis.	.67	.47
Tripp, .....		.16	.12	Crookston, .....		.82	.66	La Crosse, .....	"	.43	.37
Armour, .....		.19	.14	Frog Falls, .....		.74	.58	Seattle, .....	Wash.	2.20	1.90
Tyndall, .....		.20	.15	St. Cloud, .....		.59	.49	San Francisco, .....	Cal.	2.20	1.90
Platte, .....		.28	.21	Fremont, .....	Neb.	.55	.44	Ogden, .....	Utah	1.83	1.50



**T**here is more  
money in Alfalfa  
and Corn for live  
stock than in any  
other single crop  
or combination  
of crops in the  
world

*W. Wheeler.*