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1. Plants for Dry Western Uplands
2. Some New Hybrid Fruits
3. $50 in Prizes


SOUTH DAKOTA STATE FAIR 1915

At the South Dakota State Fair at Huron in September, 1915, a lot of fine plants of these new alfalfas were exhibited from the western uplands. Prof. N. E. Hansen had some of these photographed and appears with the two plants of Semipalatinsk alfalfa in the first illustration and with the one plant of Cossack alfalfa in the two following.

Alfalfa and Other Seeds From Siberia

Gathered by Prof. N. E. Hansen, South Dakota State College of Agriculture and Mechanical Arts, Brookings, S. D.

My fourth expedition to Siberia was in 1913 to the dry, open steppe near Semipalatinsk, Southern Siberia, a region with a total annual precipitation of eight inches, including both rain and snow, and with a temperature range of from 106 degrees above in summer to 50 degrees below zero Fahrenheit in winter, often without snow. The expedition was authorized by the South Dakota State Legislature, March, 1913.

Semipalatinsk Alfalfa. Two plants grown by Henry L. Jeffries, Sansarc, Stanley County, S. D. on high dry gumbo, without irrigation, and exhibited at the 1915 South Dakota State Fair. The specimen exhibited in 1914 as illustrated in last year’s list, had roots about 40 inches in length, diameter across the crown 16 inches; green weight, first cutting 13 pounds; second cutting 4½ lb. Mr. Jeffries has also had excellent results from his large acreage of Cossack Alfalfa.

SEMIPALATINSK ALFALFA

Described in Bulletin 141 and in list for spring 1914. From the dry steppes of Semipalatinsk, Siberia. Some of the farmers who have had excellent results with this alfalfa on the driest uplands of the west now abbreviate this word to Semi. A variety of great vigor and especially adapted to transplanting into cultivated rows. It is not at its best the first season as it first makes its remarkable root system. It does its own subsoiling on hardpan. Flowers yellow.

Plants weigh about 20 lb per 1,000. Plants by express at purchaser’s expense, 60 cents per 100; $4.00 per 1,000.

NOTE. Alfalfa plants will be sold by weight not by count.

Cossack Alfalfa. A single plant grown on upland without irrigation at Wall, western South Dakota, and exhibited at the South Dakota State Fair, 1915. The growth shows first and second crop together.

Total weight of this plant as shown was 8 pounds, dry weight.

COSSACK ALFALFA

From my 1913 tour to Russia. A hybrid alfalfa descended from a single plant found wild in the dry steppes of Voronezh province of Russia. Cossack, the name I have given it, indicates its place of origin. So many farmers report success with the Cossack that it appears
destined to wide popularity. The Cossack I regard as the strongest and best of the hybrid alfalfas, many with 500 stems per plant by the second year. Our heavy seeded. Recovers quickly after cutting; leaves very abundant. For further description see Bulletin 141, also our spring 1914 list. Flowers much varied, of many colors. Plants by express at purchaser's expense, 60 cents per 100; 10.00 per 1,000.

A. F. Mills, of Wall, Pennington County, western South Dakota, writes: "I am glad that you secured the big alfalfa plant shown in the Wall exhibit. This Cossack alfalfa plant was one of a lot sent out by you in the spring of 1911. The stems measured 5 feet 2 inches and the roots 17 inches long. Before sending it away we combed out quite a lot of dirt and roots. A small stock of plants which were much crowded in the nursery hence only about one-half usual size. Price $1.00 per 100; $4.00 per 1,000.

HANSEN'S SIBERIAN RED CLOVER

Good seed of the wild red clover as I found it growing near Semipalatinsk, Siberia, 1911. This shrub assumes wide interest in the north wherever trouble has been experienced with winter-killing of the common red clover, which comes to us from the milder climate of western Europe. Price per 1 oz. packet containing about 14,609 seeds, 50 cents.

HANSEN'S GAMARA PEROENIAL CLOVER

First noted in my list 1912. A copy of this description sent upon request. A perennial red clover native of the dry steppes of the Volga region and east European Russia. It is Trifolium alpestre, Crantz; (S. P. I. 20641) from my 1906 tour. Fine plant but we find difficulty in getting even germination of seed. Freezing or sulphuric acid treatment of seed will probably solve the problem. Seed per packet 1/4 oz, 50 cents.

DAGHESTAN YELLOW SWEET CLOVER

Melilotus officinalis from Daghestan province, Transcaucasia, bordering on the Caspian Sea. "Considered as a very good fodder plant." This is S. P. I. 20622 from my 1896 tour to Russia. Good abundant foliage and a free seeder. Seed, per ounce packet, 50 cents.

Some New Vegetables

HANSEN'S TURKESTAN RADISH

Much like a flat turnip in size and form, but with red skin and of remarkably mild flavor. In my estimation, a very great advance in radish culture. In 1913 I found this as something new, having been brought to Semipalatinsk by the natives of the dry interior of Turkestan about four years previous. A favorite table vegetable when peeled and eaten with butter. A few packets of this seed were sent out in the spring 1913. A correspondent at Arcola, Manitoba, writes: "The radishes were excellent, of fine flavor. I used six of them at different times and found them to be the best radish for this climate I have found."

The past season we raised a good crop of seeds so that we know this seed is true. Seed per ounce packet, 25 cents. For pound, $4.00.

SIBERIAN ALMOND

Amygdalus nana L. A desirable dwarf ornamental shrub from the dry steppes of Siberia, with abundant bright, rose pink flowers, among the very first to bloom in the spring. Good in front of other shrubs. Raised from our own importation from Siberia. Plants, each 50 cents.

SIBERIAN BUCKTHORN

Raised from seed I gathered from wild plants at Semipalatinsk, Siberia 1911. The plants were in fruit instead of in flower at the time so that the botanical name remains to be determined. Small plants, each 50 cents.

SIBERIAN LAVATINA

Lavatera Thuringiaca. A tall growing perennial flower from the Semipalatinsk steppes. Height 1 to 2 feet. Branching habit; flowers pink, somewhat of the style of single Mallow or Hollyhock. A Manitoba experimenter gives a favorable report of this flower and wants more seed. There can be no question as to its hardiness in exposed situations. The flowers will be improved by section. Seed per ounce, 25 cents; Strong plants, each 55 cents.
ROSA RUGOSA

The well-known beautiful hardy rose with dark crimson single flowers up to four inches in diameter. Attractive ornamental in autumn and early winter with large bright red fruits, which are used, with seeds removed, for food in its native home. Our own importation, descended from the original introduction from Siberia by the Imperial Botanical Gardens at Petergof, Russia. The Siberian form of this species is superior to the Japanese form. Small one-year plants, each 25 cents.

MANITOBA HAZELNUT

Ornamental as well as useful. The seed is apparent of a nut-bearing shrub for the open prairie. We now have the wild native hazelnut of Manitoba in the third generation under cultivation. Can spare a few plants at 50 cents per plant.

NEW ULM BLACK WALNUT

The farthest northwestern limit of the native black walnut is probably near New Ulm, Minnesota. This lot of trees began to bear at seven years from the seed. A few two-year trees of the second generation, each 50 cents.

A New Raspberry

Described in Bulletin 159. The Sunbeam was the best of the first 7,000 seedling raspberries, and this was the best of the following 6,000. Fruit a bright red, of full commercial size, about 16 to the ounce, fairly firm, of good quality. Plants as hardy as any wild raspberry without winter protection. Plants, 6 for $1.00.

ONTA RASPBERRY

Hybrid of Chinese apricot and DeSoto plum. Very firing fragrant, resembling American plum. The largest of over 10,000 seedlings. Hybrid of America and Terry. The largest of over 10,000 seedlings. The Sunbeam was the best of the following 6,000. Fruit a bright red, of full commercial size, about 16 to the ounce, fairly firm, of good quality. Plants as hardy as any wild raspberry without winter protection. Plants, 6 for $1.00.

New Hybrid Plums

The many new plums originated in this Department and sent out for trial are now extensively propagated by many nurserymen. For descriptions, see Bulletins 133 and 153 of this Station. In propagating a set for our new station orchard, we have a few trees on hand in numbers too small to catalog. These are one year old on native plum stock. Price, our assortment, $5.00 per dozen.

WANETA PLUM

Hybrid of America and Terry. The largest of over 18,000 seedlings. Size 3 inches in diameter, weight 2 ounces, quality delicious. Combines the best points of the Japanese and native plums.

TOKATA PLUM

Hybrid of Chinese apricot and DeSoto plum. Very firm, fragrant, excellent quality. Price of Waneta and Tokata, one year trees, each 75 cents; $7.50 per dozen.

PLUMS, TRUE TO SEED SERIES

The first step in my project of breeding plums true to seed to avoid the necessity of budding and grafting. T. T. Seed No. 1 is a seedling of Opata. T. T. Seed No. 2 is a seedling of Kapan which is of the same pedigree as Opata. I am not sure this plan will be desirable as the trees would need to be isolated when in bloom, either by planting the trees or by planting them far from other trees. Some of them will no doubt revert, others will come true. To complete this work, seedlings should be raised and only those saved that came true. Trees, one year buds on native plum stock, each 75 cents.

NATIVE PLUM SEEDLINGS

We can spare some one year native plum seedlings for grafting and budding, raised from our collection of seedlings, named and unnamed. Will do also for windbreaks.

| Size No. 1 | $2.00 per 100; $12.00 per 1,000. |
| Size No. 2 | $1.50 per 100; $8.00 per 1,000. |
| Size No. 3 | $1.00 per 100; $5.00 per 1,000. |

Some New Apples

I have as yet no candidate for the hardy winter apple that is so much needed for the prairie Northwest, but am still at work on the problem. The following four varieties of apples merit a trial and will also afford a test of the Siberian crab stock, which is relatively preliminary to work with the new apple seedlings now appearing. The names are all Russian, viz., Ivan, a man’s name; Adno, one; Dolgo, long; Sereda, Wednesday.

Price of trees, one year buds on Pyrus baccata stock, of Ivan, Sereda, Adno, Hibkee, each 50 cents.

IVAN CRAB APPLE

Offered for the first time. One of our many seedlings crabs. Note-worthy for the color and the flesh being absent in the ripe fruit, the same as in the pure Siberian crab (Pyrus baccata.) Fully one and three-fourths inch in diameter, roundish oblate, good color, marbled with stripes and orange red. Seed.

SEDERA APPLE

Offered for the first time. From seed of the Harry Kaump top-grafted on Oldenberg (Duchess) apple. Resembles Yellow Transparent and of similar very early season, but more regular in form. Yellow, juicy, slightly subacid.

ADNO APPLE

Offered for the first time. Very handsome, large, red, subacid, productive, late fall apple, received from Russia. Adno is my provisional name until the true name can be determined.

HIBKEE APPLE

This variety, offered for the first time, is a puzzle. A graft-hybrid of Hibernia and Milwaukee; the fruits so far show the flesh and core of Milwaukee and the surface coloring of Hibernia. For my method of grafting these trees, see Bulletin 133, page 13. Such hybrids are now called pericinal chimera. It is desirable to ascertain whether this proves stable under propagation. The name Hibkee is made up from the names of these two varieties.

DOLGO CRAB

Offered for the first time. At the annual exhibit of this Department at the South Dakota State Fair many have asked about the remarkable long conical, intensely bright red crab we used for making letters. This is one I brought over from my second trip to Russia in 1897. A vigorous productive tree and so far free from blight. Fruit full of juice, pale yellow, makes a rich ruby red jelly of beautiful color and excellent flavor. Scions only; One foot for 50 cents.

Russian Crabs for Apple Stocks

The Siberian crab roots for the Apple to prevent root-killing and as a semi-dwarf stock.

In Bulletin 65 of this Station I urged the trial of Siberian roots to prevent the root-killing which is often disastrous at the North. The experiments are still in progress. Last fall we needed fully 600 barrels of various Siberian crab apples and this is now stratified for spring planting. Some seed can be spared for other experimenters. Seeds in one-half ounce packages of Red Siberian, Yellow Siberian, Dartz’s Hybrid, Gould Crab, Virginia Crab, Florence Crab, Whitney, Transcendent, and Pyrus baccata. Price per packet, 25 cents. Note: There are from 1,000 to 1,500 seeds in one ounce according to the variety.

One year seedlings of Dolgo crab (P. prunifolia,) 25 for $1.40.

One year seedlings of mixed Pyrus baccata, 100 for $2.00.

Novelties for Experimenters

Scions are for the expert, but for the inexperienced amateur. The following actions will be cut only as ordered before April 15th. Price, 2 ft. for $1.00; not less than 2 feet of any one variety sold.

1. Pyrus cuneata, the new name given by the Arnold Arboretum to the Chinese sand pear illustrated in my Bulletin 139.

2. Pyrus Louisianica, a wild pear from the Pacific coast section of Siberia. From my 1887 tour to Russia.

3. Pyrus baccata, a wild ornamental pear, native of China. See Bulletin 159.

4. Sorbus aucuparia edulis, an edible-fruited mountain ash from Russia. Fruit is sour; rather than bitter. From my 1886 tour to Russia.

PYRUS TORINGO

A dwarf crab native of Japan. Fruit the size of a pea, flowers white and blooming. Often used for ornamentals, but not hardy in the rock stock. Descended from the original stock imported by Prof. J. L. Budd from Russia. Fruit, one-third plants each 25 cents; 10 for $2.40.
FIFTY DOLLARS IN PRIZES

This Society offers prizes for the best five crops raised in 1916 in South Dakota from one-half pound of Hansen's White Siberian Proso from hand-picked seed.

CONDITIONS:
1. Secure one-half pound of seed of Hansen's White Siberian Proso from hand-picked seed, as offered in preceding paragraph.
2. Grow as you wish, but I recommend sowing with garden drill in 12 inch drills as this permits of cultivation with a wheel hoe or hoe. Insure seed free from weeds.
3. Send in report by September 1st. If your yield is sufficiently high you must provide one half pound for exhibition by this Society at the South Dakota State Fair at Huron. The postage on these prize samples will be paid by this Society.

LIST OF PRIZES

First prize—$40 cash and a $10 life membership in this Society. Total value $50.
Second prize—$4 cash, 1 annual membership and 2 back volumes. Total value $7.00.
Third prize—$3 cash, 1 annual membership and 4 back volumes. Total value $10.00.
Fourth prize—$2 cash, 1 annual membership and 2 back volumes. Total value $6.00.
Fifth prize—$1 cash, 1 annual membership and 1 back volume. Total value $4.00.

Free Premiums to New Members

All annual members, old as new, may select one as a free premium. Good until May 1, 1916; after that, only No. 15 is offered.

1. One-half pound of Hansen's Turkestan Radish.
2. Two packets seed of Hansen's Turkistan Radish.
3. Two plants of Siberian Lavatera.
4. Two packets seed of Siberian Lavatera.
5. Four ounces Hansen's Siberian White Sweet Clover.
6. Ten one year old seedlings of my large fruited Sand Cherry, the Sludy, noted in Bulletin 130. The fruit of some of these will be extra good size and quality and all are good enough for sauce.
7. 10 cuttings of Ural Willow, an excellent tying willow. The branches can be tied in knots and used as dowels.
8. Chrysanthemums, 5 rooted cuttings, assorted, choice double varieties, souvenirs of the annual Chrysanthemum Show of the South Dakota State College of Agriculture and Mechanical Arts.
9. Ten one year old plants of Carex argentea, the Siberian Fescue. A large sheet or turf type, attaining a height of 20 feet. Its bright green leaves in the early spring and wealth of yellow flowers fine increasing popularity to this old favorite. One of the best for snow-catchers, low windbreaks and hedges, and for single specimens on the lawn. The branches resist snow drifts. Perfectly hardy in the most exposed places far north.
10. Caragana arborescens. Package of 1,000 seeds (about 1,065 seeds in one ounce). For fence, windbreaks or hedges, for all practical purposes these two varieties may be considered one variety, the Cossack.
11. 100 plants Cossack alfalfa, sent postpaid.
12. 100 plants Semipalatinsk alfalfa, sent postpaid.
13. 500 plants Semipalatinsk alfalfa seed.
14. 1 ounce Cossack alfalfa and 1 ounce Cherno alfalfa.
15. 1 ounce Semipalatinsk alfalfa seed.
16. 1 ounce Cossack alfalfa and 1 ounce Cherno alfalfa.
17. 1 ounce Semipalatinsk alfalfa seed.
18. 1 ounce Cossack alfalfa and 1 ounce Cherno alfalfa.
19. 1 ounce Semipalatinsk alfalfa seed.
20. 1 ounce Cossack alfalfa and 1 ounce Cherno alfalfa.
21. 1 ounce Semipalatinsk alfalfa seed.
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96. 1 ounce Cossack alfalfa and 1 ounce Cherno alfalfa.
97. 1 ounce Semipalatinsk alfalfa seed.
98. 1 ounce Cossack alfalfa and 1 ounce Cherno alfalfa.
99. 1 ounce Semipalatinsk alfalfa seed.
100. 1 ounce Cossack alfalfa and 1 ounce Cherno alfalfa.

Tea Dollars Cash for Largest Radishes

Raised in South Dakota in 1916

CONDITIONS:
1. Secure from me seed of Hansen’s Turkestan Radish.
2. Grow and cultivate as usual for radishes, saving somewhat oddly.
3. When of full mature size, ready for the table, weigh best single
4. Weigh the weight.
5. If the prize radishest must be sent me for exhibition at the South Dakota State Fair, September, 1916. The Society pays the postage.
6. First Prize $5.00
7. Second Prize $2.00
8. Third Prize $1.00

Address,

PROF. N. E. HANSEN,
Secretary South Dakota State Horticultural Society, Brookings, South Dakota.