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Early Garden Peas

N.E. Hansen

South Dakota Agricultural College

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Bulletin 85

April 1904

SOUTH DAKOTA

AGRICULTURAL COLLEGE

EXPERIMENT STATION

BROOKINGS, SOUTH DAKOTA.

EARLY GARDEN PEAS.

Department of Horticulture.

TIMES POWER PRESS, Springfield, S. D.

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EARLY GARDEN PEAS.

N E. Hansen, Horticulturist.

In the spring of 1903 a variety test of over 800 varieties of vegetables was undertaken for and in co-operation with the United States Department of Agriculture. W. W. Tracy Sr., of the Division of Seed and Plant Introduction, was sent by the department to several states where this co-operative work is carried on, and visited this station in the spring of 1903 to complete the preliminary arrangements. The United States Department of Agriculture furnished the seeds and paid for the labor. The land and superintendence were furnished by this station. The spring proved favorable for the germination of seeds in general, and although planted late, the plats presented a pleasing appearance until July 15, when the plants were destroyed by a severe hailstorm, a very unusual event in this locality.

Of the 153 varieties of garden peas under trial, only the earlier varieties had given an account of themselves by this time, as indicated by the following table. The late varieties had made a strong growth of vine, but further note-taking was useless after the hailstorm.

The seed was planted May 26 in drills, each variety occupying 20 feet in a row. The soil was a rich black, somewhat sandy loam, with boulder clay subsoil. The planting, field cultivation and cooking tests were conducted under the writer's direction by Chas. Haralson, Vincent Fulkerson and Albert Johnson.

The following tables do not give all the notes that were taken under the direction of the Department of Agriculture, but only those points deemed of special interest to the general public at this stage of the investigation.

The quality was determined by cooking each variety when picked. In the columns giving the result of this work, * means the word at the head of the column, + means "very," and — indicates "deficiency." The first variety named for example, was tender, sweet, juicy and of good flavor. No. 1661, the fifth variety on the list, when cooked, proved to be deficient in tenderness and juiciness, but was sweet, starchy and of good flavor. No. 1865, the second on the list, was very tender, very sweet, flavor very good.

COMPARATIVE TABLE.

Trial No.	Variety.	Seedsman.	Stand	Height of Vine In Inches	Date of First Picking July	Average Number Pods per Vine	Average Number Peas per Pod	Average of 10 Pods.		Shape	Quality as Determined by Cooking Tests.								
								Size in inches	Size		Tender	Sweet	Starchy	Dry	Tasteless	Good Flavor	Rank		
																		Length	Breadth
1592	Abundance	W. A. Burpee	K	28.0	12	5.2	3.4	.65	medium	oval	+	+	+	+	+	+	+	+	
1865	Advancer	N. B. Keeney	K	20.8	20	5.1	4.0	2.6	.625	medium	oval	+	+	+	+	+	+	+	+
1618	Alaska	J. M. Thorburn	K	26.5	12	4.7	2.9	.625	medium	round	+	+	+	+	+	+	+	+	
1858	Alaska	N. B. Keeney	K	30.4	12	5.7	3.9	2.4	.6	medium	round	+	+	+	+	+	+	+	
1661	Ameer	Hurst	K	31.2	12	4.2	4.5	2.9	.55	medium	round	+	+	+	+	+	+	+	
1564	Allen's Dwarf Telephone	J. H. Allen's Seed Co.	K	15.3	13	4.5	3.7	.8	medium	flat	+	+	+	+	+	+	+	+	
1565	American Wonder	D. M. Ferry	K	15.0	13	10.5	6.0	2.8	.6	medium	flat	+	+	+	+	+	+	+	
1844	American Wonder	N. B. Keeney	K	9.8	13	4.6	5.6	2.9	.625	medium	flat	+	+	+	+	+	+	+	
1569	Anticipation	Robt. Evans	K	25.5	13	4.5	3.67	.65	large	round	+	+	+	+	+	+	+	+	
1545	Blue Beauty	J. M. Thorburn	K	18.5	13	9.8	4.8	3.0	.65	medium	oval	+	+	+	+	+	+	+	
1610	Boston Unrivald	W. A. D.	K	50.0	13	4.0	3.8	.8	medium	oval	+	+	+	+	+	+	+	+	
1556	Breck's New Life	J. H. Breck	K	33.6	13	9.8	5.0	3.2	.6	medium	flat	+	+	+	+	+	+	+	
1645	Breck's Excelstor	J. Breck & Son	K	28.2	13	8.0	5.6	2.8	.6	medium	round	+	+	+	+	+	+	+	
1527	British Wonder	Jas. M. Squier	K	15.4	13	6.6	4.5	3.2	.75	medium	flat	+	+	+	+	+	+	+	
1528	British Wonder	C. F. & Co.	K	15.7	13	5.4	5.2	3.5	.75	medium	flat	+	+	+	+	+	+	+	
1540	Chelsea Gem	W. W. Johnson	K	13.3	15	6.5	5.3	3.02	.55	medium	flat	+	+	+	+	+	+	+	
1541	Chelsea Gem	Hurst	K	14.5	15	6.3	6.0	3.17	.6	medium	flat	+	+	+	+	+	+	+	
1667	Cooper's Imp.	Fillbasket, C. F. & Co.	K	24.0	13	3.8	3.8	.7	medium	oval	+	+	+	+	+	+	+	+	
1575	Dr. Hogg	Hurst	K	28.7	12	3.1	5.7	3.25	.5	medium	round	+	+	+	+	+	+	+	
1699	Duke of Albany	D. M. Ferry	K	39.1	13	4.6	4.9	4.1	.6	medium	oval	+	+	+	+	+	+	+	
1701	Duke of York	J. M. Squier	K	35.5	14	1.6	4.6	3.5	.75	large	oval	+	+	+	+	+	+	+	
1664	Early Bountiful	Den.	K	32.2	13	5.5	6.1	3.1	.65	medium	round	+	+	+	+	+	+	+	
1543	Early Prize	J. J. H. Gregory	K	16.3	13	11.2	5.3	2.9	.6	medium	flat	+	+	+	+	+	+	+	
1675	Empress of India	Hurst	K	22.1	14	3.5	5.3	2.9	.7	medium	flat	+	+	+	+	+	+	+	
1673	Extra Early Exonian	J. M. Thorburn	K	22.7	14	5.4	4.4	2.3	.5	medium	round	+	+	+	+	+	+	+	
1603	Eugenia	Landreth	K	31.5	13	7.4	2.8	3.3	.75	large	flat	+	+	+	+	+	+	+	
1627	Ferry's Extra Early	D. M. Ferry	K	28.6	12	7.4	4.5	2.7	.55	medium	round	+	+	+	+	+	+	+	
1861	Extra Early	N. B. Keeney	K	26.4	11	5.1	5.9	2.8	.55	medium	round	+	+	+	+	+	+	+	
1628	First of All	J. M. Thorburn	K	29.4	11	8.9	5.5	2.8	.625	medium	round	+	+	+	+	+	+	+	
1630	First and Best	J. Squier	K	24.4	11	4.6	6.1	2.9	.5	medium	round	+	+	+	+	+	+	+	
1860	First and Best	N. B. Keeney	K	27.8	11	4.6	5.0	2.7	.5	medium	round	+	+	+	+	+	+	+	
1652	Gradus	J. M. Thorburn	K	25.1	13	5.3	4.3	3.8	.75	large	oval	+	+	+	+	+	+	+	

LATER VARIETIES.

Full notes were not taken of the following varieties for the reason already stated. All germinated well except the varieties marked *, which were a poor stand. Nos. 1581 and 1582 did not germinate:

No.	Variety.	Seedsman.
1855	—Abundance	N. B. Keeney
1751	—Admiral	W. A. Dreer
1871	—Admiral	N. B. Keeney
*1687	—Alderman	Hurst
1707	—Allen's Admiral Dewey	J. H. Allen
1766	—Black-Eyed Marrowfat	J. M. Thorburn
1873	—Black-Eyed Marrowfat	N. B. Keeney
1589	—Bliss Everbearing	D. M. Ferry
1581	—British Empire	Hurst
1877	—Canning	N. B. Keeney
1720	—Capt. Cuttle	Hurst
1852	—Carter's Daisy	N. B. Keeney
1746	—Champion of England	Ward (C. S. 148)
1870	—Champion of England	N. B. Keeney
1677	—Charmer	J. Vick & Son
1715	—Consummate	W. W. Johnson
1689	—Cooper's Prince Edward	C. F. & Co.
*1613	—Crown Prince	Johnson & Stokes
1573	—Dr. McLean	Hurst
1574	—Dr. McLean	Hurst
1868	—Duke of Albany	N. B. Keeney
1875	—Early Marblehead Marrowfat	N. B. Keeney
1724	—Essex Rival	Hurst
1854	—Everbearing	N. B. Keeney
1588	—Everbearing	J. M. Thorburn
1722	—Gladstone	Hurst
1872	—Glory	N. B. Keeney
1726	—Hallamshire Hero	Hurst
1850	—Heroine	N. B. Keeney

- 1857—Horsford's Market Garden.....N. B. Keeney
 1585—Hurst's Dwarf MammothHurst
 1745—Hurst's Reliance Den
 1547—Improved Stratagem D. M. Ferry
 1771—Improved Sugar Marrow D. M. Ferry
 1584—John BullHurst
 1582—Johnson's British Empire.....W. W. Johnson
 1721—Johnson's Magnificent.....W. W. Johnson
 1851—JunoN. B. Keeney
 1560—JunoJ. M. Thorburn
 1779—Large Melting SugarJ. M. Thorburn
 1867—Long Island Mammoth.....N. B. Keeney
 1788—Mammoth Gray Seeded Sugar.....J. M. Thorburn
 1789—Mammoth Luscious Sugar.....J. M. Thorburn
 1876—Mammoth Podded SugarN. B. Keeney
 1775—Marblehead Early Marrowfat.....J. J. H. Gregory
 1567—Market MasterJohnson & Stokes
 1718—New Royal SaluteW. A. Dreer
 *1583—OmegaHurst
 1848—Pride of the MarketN. B. Keeney
 1723—Prince of WalesDen
 1761—QueenJ. M. Thorburn
 1674—Rent PayerW. W. Johnson
 1869—Shropshire HeroN. B. Keeney
 1704—Shropshire HeroW. A. D.
 1849—StratagemN. B. Keeney
 1730—SuperabundanceDen
 1716—Sutton's Conquerer MarrowfatHurst
 1565—Sutton's Dwarf DefianceHurst
 1586—Sutton's EurekaHurst
 1587—Sutton's PeerlessHurst
 1853—Sutton's SatisfactionN. B. Keeney
 1566—Sutton's SatisfactionJohnson & Stokes
 1676—S. P. I. 6428.....
 1782—Tall White Scimiter.....J. M. Thorburn
 1710—Teddy RooseveltNorthrup, King & Co.

1690—Telegraph	D. M. Ferry
1866—Telephone	N. B. Keeney
1684—Telephone	J. M. Thorburn
1770—White Marrowfat	J. M. Thorburn
1874—W. E. Marrowfat	N. B. Keeney
1725—G. F. Wilson	Hurst
1856—Yorkshire Hero	N. B. Keeney

GENERAL NOTES.

The following were the earliest varieties, practically the same, vines medium height, good bearers, small pods, but not of the best quality: Alaska, Extra Early, Thorburn Extra Early Market, First of All, First and Best, Pedigree Extra Early.

Not more than two days later, shorter vines, and not the best quality are Blue Beauty, Tom Thumb, The Sutton Forcing, and the Early Prize.

Of the same season and better quality are, American Wonder, Chelsea Gem, Harbinger, Nott's Excelsior, Premium Gem, The Sutton Excelsior, and William Hurst, Pierpont Gem. McLean's Advancer, of same season, is of especially good quality; vines rather dwarf. The British Wonder has a large pod, is of the same season, and very fine quality.

Taller varieties of the same season are William the First, Extra Selected, Thomas Laxton, May Queen, Sutton's Early Giant, Station, Gradus, Gregory's Surprise, Extra Early Alpha, Extra Early Exonian, Empress of India. All of good quality.

Dr. Hogg is taller, not a very heavy bearer, but of good quality, same season.

Among the late peas are Advancer, of fine quality; Kenilworth is taller, a good bearer, but quality not as good; Horsford's Market Garden is medium tall, good quality. The Herald and The Sherwood are dwarf varieties, of good quality, stand poor; Sutton's Favorite Marrowfat, rather short, quality good, not a heavy bearer.

Stratagem and Sutton's Prize Winner are later varieties of superior quality.

Among other late varieties are Eugenia, fine cooking quality, but not a heavy bearer.

The following are prolific late sorts of fine quality: Abundance, Admiral, Stratagem, Everbearing, Bliss Everbearing, Sutton's Satisfaction.

Canning is an especially prolific sort with medium sized pods.