

No.



8100054

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Cebeco - Handelsraad

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR EXPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS AS DETERMINED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Miranda'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 28th day of October in the year of our Lord one thousand nine hundred and eighty-two.

Attest:

Kenneth H. Wood

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block

Secretary of Agriculture



No.



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Attest:

Kenneth H. W.

Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block

Secretary of Agriculture

Issued



UNITED STATES DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
 OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY		1b. VARIETY NAME		FOR OFFICIAL USE ONLY	
		Miranda		PV NUMBER 8100054	
2. KIND NAME		3. GENUS AND SPECIES NAME		FILING DATE	TIME
Pea		Pisum sativum L.		2/17/81	3:00 <u>P.M.</u>
4. FAMILY NAME (BOTANICAL)		5. DATE OF DETERMINATION		FEE RECEIVED	DATE
Leguminosae		december 1977		\$ 500.00	2/17/81
				\$ 250.00	8/6/82
6. NAME OF APPLICANT(S)		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)		8. TELEPHONE AREA CODE AND NUMBER	
Cebeco-Handelsraad		Blaak 31, P.O.B. 182, 3000 AD ROTTERDAM The Netherlands.			
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION		11. DATE OF INCORPORATION
Corporation					
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS:					
Dr. Kevin Mcveigh, Research Department Phone: (503) 369-2251			International Seeds Inc., P.O.B. 168, Halsey, Oregon 97348		

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:
- 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
 - 13B. Exhibit B, Novelty Statement.
 - 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
 - 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) YES NO *R/S 6/10/83*

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? YES NO *R/S*

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? FOUNDATION REGISTERED CERTIFIED *R/S*

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," give name of countries and dates.)

The Netherlands 12-12-1978
 France 06-02-1978
 England 13-11-1978

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? YES NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

23-1-1981
 (DATE)

13 Feb 1981
 (DATE)

Nationale coöperatieve aan- en verkoop-
 paradijsse bescherming en result in penalties.
 vereniging voor land- en tuinbouw b.a.

CEBECO-HANDELSRAAD
 (SIGNATURE OF APPLICANT)

Kevin J. McVeigh
 (SIGNATURE OF APPLICANT)

Nationale coöperatieve aan- en verkoop-
vereniging voor land- en tuinbouw bij
CERECO-HANDELSRAAD

rec'd
FEB 17 1981 3:00 pm
22

The Netherlands 12-12-1978
France 02-02-1978
England 12-11-1978

International Seeds Inc.
P.O. B. 168,
Halsey, Oregon 97348

Dr. Kevin Howick, Research Department
Phone: (503) 369-1251

Corporation
Cerco-Handelsraad

Blask 31, P.O.B. 182, 3000 AA ROTTERDAM
The Netherlands.

Pisum sativum L.

December 1978

1978



MIRANDA (white pea)

Exhibit A

13 A Origin and Breeding History of the Variety

Miranda, white field pea is derived from a crossing of Allround x Cebeco 61.207, made in 1969 in Hoofddorp, the Netherlands.

Plant selection was made in 1971, after two generations of the population conducted in the greenhouse.

This plant selection was followed by line selection and replicated field trials.

Maintenance:

- 1 Line selection at breeding station.
- 2 Small multiplication at breeding station.
- 3 Producing pre-basic seed at breeding station.

Genetic history of the variety

1910

Genetic history of the variety

... while field pea is derived from a crossing of ...
... made in 1909 in Hordford, the Netherlands.
... after two generations of the
... in the greenhouse.
... followed by line selection and replication

1910

... selection at breeding station.
... selection at breeding station.
... selection at breeding station.

rec'd
FEB 17 1981

3:00 pm
AL

PEA APPLICATION NO. 8100054 - MIRANDA (White Pea)

EXHIBIT A. Addendum

13 A.

Miranda is a highly stable self pollinated cultivar. Commercial seed production is based on an advanced generation seed source that is very genetically uniform as would be expected from an F-10 generation. It is almost completely genetically homozygous because of the self-pollinated method of reproduction of peas and its highly inbred condition.

It is genetically stable with no known variants. In replicated progeny grow-out trials in Halsey, OR and in Holland there were no variants expressed in any of the 1000 seedlings observed and evaluated during either 1980 or 1981. Therefore, we state that there are no variants.



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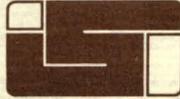
AUG 14 1981

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INTERNATIONAL SEEDS INC.

P.O. BOX 168 • 820 FIRST STREET
HALSEY, OREGON 97348
(503) 369-2251 • TWX (510) 590-0765

1 March 1982

Exhibit B

JE7 820322

Mr. Kenneth H. Evans
Acting Commissioner
Plant Variety Protection Office
U.S.D.A., Agricultural Marketing Service
N.A.L. Building
Beltsville, MD 20705

Dear Mr. Evans:

Enclosed is additional data for our Plant Variety Protection application No. 8100054, Miranda field pea.

Miranda is a unique and distinct cultivar of field pea. It has been evaluated at several experiment stations in the major dry pea growing areas of this country. I am citing some of their test data (copies enclosed) to substantiate my novelty claim.

Miranda is characterized by having a dwarf stature, determinate growth habit, very large seed size and a yellow cotyledon. It is most similar to Paloma, a yellow pea, which was bred by CEBECO earlier. It can be easily distinguished from Paloma, however, by several quantitative characteristics. These include a larger size, heavier seed being 22.5% heavier or 5.4g. heavier per 100 seeds. Miranda blooms earlier (2 days) and is earlier maturing (5 days) than Paloma. Miranda flowers at an earlier stage of growth, the 10 or 11 node while Paloma produces its first at the 13 or 14 node. This data is presented in Tables 1 and 2. It is based on the field data of Fred Muehlbauer, U.S.D.A. pea breeder at Pullman, Washington, as shown in his Table 8, Summary of the preliminary yield trial, green and yellow peas, and field data of Bob Robinson, University of Minnesota pea breeder at St. Paul as shown in his Table 13, Characteristics of Field Peas (both of which are also enclosed.)

In the original application I primarily compared the Miranda pea to the green processing (vegetable) peas used in the Form GR470-15, Exhibit C, of the pea form. This includes the cultivars Alaska WR, Thomas Laxton WR, Little Marvel, Wando, Alderman WR and the Austrian winter pea. I did this because I believed that they were the ones that one had to use as standards. However, in later trials, I have compared it to other cultivars including the principal dry peas currently grown in the U.S. The Palouse area of Washington-Idaho and Central Minnesota are the two principal areas of U.S. dry pea production. Research data is included from those areas. I have revised a table that I had submitted earlier. It is included now as



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Mr. Kenneth H. Evans
PVP Office, U.S.D.A.
Page 2

Table 3. It compares the Miranda with Paloma as well as the green processing peas listed in GR 470-14. The seed weight per 1000 seeds shows Miranda to be significantly heavier than the other entries including Paloma. The date of first flowering is significantly earlier for Miranda than for Paloma. The green pea, Thomas Laxton, flowers at about the same day but is distinguished from Miranda by its low seed weight, 1000 seeds, its wrinkled seed coat and its much taller growth habit.

I feel these distinct differences show Miranda to be a unique and distinct cultivar of dry field pea. I respectfully submit this data for your review.

Yours truly,

Kevin J. McVeigh
Kevin J. McVeigh
Research Agronomist

dpd

enc.

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1982 EDITION

Revised December
1981

CONTENTS

Adzuki Bean	2
Alfalfa	3
Annual Canarygrass	6
Barley	6
Birdsfoot Trefoil	7
Bromegrass	7
Buckwheat	8
Corn	8
Dry Edible Pea and Field Pea	9
Field Bean	10
Flax	12
Grain Sorghum	13
Millet	14
Oat	15
Orchardgrass	17
Red Clover	17
Reed Canarygrass	18
Soybean	18
Sunflower	26
Tall Fescue	29
Timothy	30
Wheat, Durum	30
Wheat, Hard Red Spring	31
Wheat, Winter	34
Wild Rice	34
Winter Rye	35
Planting Rate and Date	36

VARIABLES OF TERRALS OF CROPS

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Agronomist J. L. Geadelmann is evaluating corn hybrids for efficient use of nitrogen fertilizer. He is standing between plots of low and high levels of nitrogen.

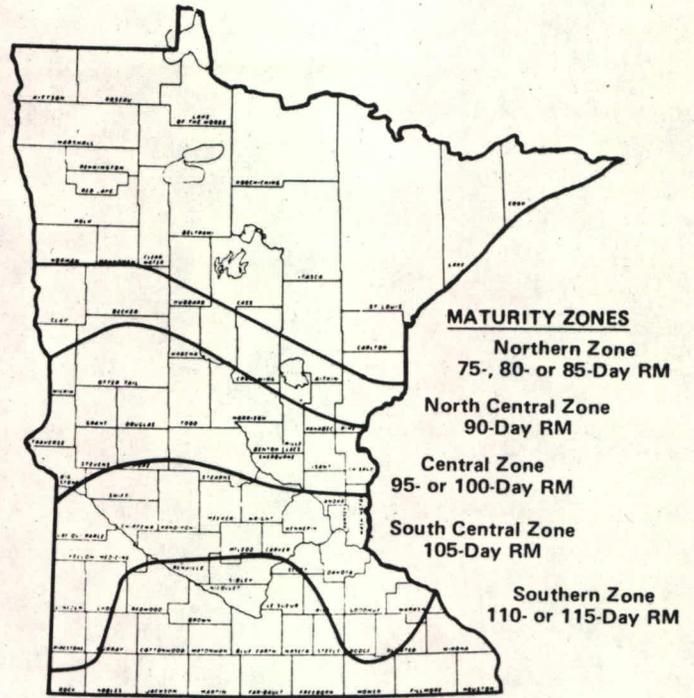


Table 12. Performance of corn hybrids, 1978-1980

Hybrid	Type of cross	Relative maturity	Yield per acre ¹ (bushels)					Broken stalks ² (percent)				
			Staples	Morris	Rose-mount	Lamber-ton	Waseca	Staples	Morris	Rose-mount	Lamber-ton	Waseca
Minhybrid 8201	single	80	111	85	114			3	6	5		
Minhybrid 8301	3-way	80	99	84	107			5	8	7		
Minhybrid 7301	3-way	90	105	91	113			3	4	6		
Minhybrid 6301	3-way	95		111	126				2	1		
Minhybrid 6304	3-way	95		108	133				4	1		
Minhybrid 6305	3-way	95	117	125	126			4	4	0		
Minhybrid M309	3-way	100		107	135				1	2		
Minhybrid 5201	single	105		117	137	131	175		1	2	2	0
Minhybrid 5202	single	105				143	179				1	0
Minhybrid 5301	3-way	105				136	170				4	1
Minhybrid 5303	3-way	105		133	147	131	185		3	1	1	2
Minhybrid 4201	single	110				128	173				2	2
Minhybrid 4202	single	110				137	171				0	1
Minhybrid 4203	single	110				148	185				2	2
Minhybrid 4303	3-way	110				140	182				2	2
LSD 5%			5	5	6	6	8					

¹15.5% moisture basis. ²Below ear.

DRY EDIBLE PEA AND FIELD PEA

Dry edible pea is sold to processors for use in soup and pigeon feed or fed on the farm to sheep, hogs, or cattle. When used for a forage or feed grain crop, it usually is sown in a mixture with oat.

Varieties with cream-colored seed are most commonly grown. Buyers in Minnesota have not encouraged production of green varieties because of bleaching at harvest time.

RECOMMENDED VARIETIES

Century—High yield. Medium to early. Long vined. Large, cream-colored seed. Good cooking quality. Originated by Agricul-

ture Canada, Ottawa, from crosses involving Chancellor, Early Raymond, and Stirling. Licensed in 1960.

Paloma—Very high yield. Early. Very short. Large, cream-colored seed. Developed by Cebeco-Handelsraad of The Netherlands.

VARIETIES NOT ADEQUATELY TESTED

Lenca—High yield. Medium to early. Long-vined. Medium size, cream-colored seed. Good cooking quality. Susceptible to powdery mildew. Originated by Agriculture Canada, Morden,

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from a cross of Century x Costa Rica. Production of certified seed limited to Canada.

Miranda—Very high yield. Very early. Very short. Very large, cream-colored seed. Developed by Cebeco-Handelsraad of The Netherlands. Variety protection pending.

Tara—High yield. Medium to early. Medium vine length. Medium size, cream-colored seed. Satisfactory cooking quality. Resistant to powdery mildew. Originated by Agriculture Canada, Morden, from crosses involving Century, Chancellor, and PI 162567. Licensed in 1978. Production of certified seed limited to Canada.

OTHER VARIETIES

Maple—Medium to low yield. Late. Long vined. Large, olive-colored seed with brown mottle and indistinct hilum. An excellent variety for pigeon feed use. Grown under contract when buyers offer a higher price than for recommended varieties.

Trapper—Medium to high yield. Medium to early. Medium vine length. Small, cream-colored seed. Good cooking quality. Originated by Agriculture Canada, Morden, from a cross of Chancellor x Weibull's 700. Licensed in 1970.

Table 13. Characteristics of field pea varieties

Variety	Seed yield/acre (pounds)			Weight/ 100 seeds (grams)	Seed protein ¹ (percent)	Planting to		Vine length (inches)
	Becker 1977-78, 80-81	Grand Rapids 1980-81	Crookston 1980-81			bloom (days)	maturity (days)	
Century	1830	2219	2000	22.0	26.0	60	96	44
Paloma	2894	2972	2285	28.1	25.4	55	92	18
Lenca ²	2051	2230	2259	18.1	25.6	58	93	37
Miranda ²	2746	2239	2901	32.9	24.0	53	87	17
Tara	1968	2508	2225	19.2	24.6	60	94	40
Trapper	1919	2652	1773	13.5	25.8	58	93	37
LSD 5%	156	270	379					

¹Oven-dry. ²1981.

FIELD BEAN

Field bean is combine-harvested as mature, dry bean. It is used for human food and reaches the grocer's shelf in either canned or dry form.

There are more than 15 market classes of dry, edible bean, but only eight have been grown commercially in Minnesota. Minnesota's 1980 production amounted to 47 percent navy, 46 percent pinto, 2 percent red kidney, 2 percent small red, and 2 percent other classes. Varietal recommendations are confined to varieties within the navy, small white, pinto, dark red kidney, pink, black turtle soup, great northern, and small red classes. Other classes are grown successfully, but important differences among varieties within their classes have not yet been identified in our trials.

RECOMMENDED VARIETIES

Aurora small white—Medium yield. Medium late. Erect, viny bush. Very small, white seed. Resistant to rust and mosaic V-1, V-15. Tolerant of halo blight. Susceptible to common blight. Developed by New York Agricultural Experiment Station from a cross of Black Turtle Soup and Cornell 49-242. Released in 1973.

Emerson great northern—High yield. Medium late. Large, prostrate vine. Large, white seed. Resistant to V-1, V-1A mosaic. Tolerant to bacterial wilt and moderately tolerant to bacterial blight. Susceptible to white mold and rust. Developed by Nebraska Agricultural Experiment Station from a cross of GN 1140 and PI 165078. Released in 1971.

Fleetwood navy—High yield. Late. Medium-size bush. Small, white seed. Disease reactions similar to those of other navy varieties. Developed by Agriculture Canada (Harrow). Licensed in 1977.

Montcalm dark red kidney—Medium yield. Late. Large, erect bush. Very large, dark red seed. Resistant to V-1, V-15 mosaic, alpha anthracnose, and halo blight. Susceptible to white mold, beta and gamma anthracnose, and common and fuscous blights. Named and released by Michigan Agricultural Experiment Station in 1974.

Seafarer navy—Medium yield. Early. Erect bush. Small white seed. Resistant to anthracnose and mosaic V-1, V-1A, V-15. Susceptible to white mold and common and fuscous blights. Developed by Michigan Agricultural Experiment Station from crosses involving X-ray bush mutants, Emerson 847, Michelite, Trag 279-1, and Florida Belle. Released in 1967.

Snow-Bunting navy—Medium yield. Early. Medium-size bush. Small, white seed. Resistant to V-1 mosaic and alpha and beta anthracnose. Susceptible to white mold, V-15 mosaic, and common and fuscous blights. Developed by Clarence Muehlfield (Bridgeport, MI) from crosses involving Gratiot, Sanilac, Snow-Flake, and experimental navy strains. Released in 1974.

T39 black turtle soup—Medium yield. Medium late. Erect, viny bush. Small, black seed. Resistant to rust and V-1, V-1A mosaic. Susceptible to V-15 mosaic and anthracnose. Selected from black turtle soup by California Agricultural Experiment Station.

UI-37 small red—Medium yield. Very early. Short, usually erect vine. Large, dark red seed. Resistant to V-1, V-1A mosaic. Susceptible to rust, white mold and blight. Developed by Idaho Agricultural Experiment Station from a cross of UI-56 great northern and UI-34 small red. Released in 1964. *Recommended only as a very early maturing field bean; other small red varieties yield more in a normal growing season.*

UI-114 pinto—High yield. Late. Large, prostrate vine. Tan and brown mottled seed. Resistant to mosaic V-1, V-1A, and V-15. Tolerant of halo blight and *Fusarium* root rot. Susceptible to white mold, rust, and common and fuscous blights. Developed by Idaho Agricultural Experiment Station from a cross of UI-111 pinto and J378 great northern. Released in 1965.

Up-Land navy—Medium yield. Medium maturity. Medium-size bush. Small, white seed. Resistant to V-1 mosaic and alpha anthracnose. Susceptible to V-15 mosaic, beta anthracnose, white mold, and common and fuscous blights. Developed by Clarence Muehlfield (Bridgeport, MI) from a cross of Snow-Flake and a navy

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United States
Department of
Agriculture

Science and
Education
Administration

Agricultural Research
Western Region

Legume Breeding and Production
215 Johnson Hall
Washington State University
Pullman, Washington 99164

January 5, 1982

Kevin J. McVeigh
Research Agronomist
International Seeds Inc.
P. O. Box 168
Halsey, OR 97348

Dear Kevin:

Thanks for your letter of 30 December. I had to skip the ASA meeting in Atlanta because of the severe travel restrictions that have been imposed.

Information on the Palouse Symposium on Dry Peas, Lentils and Chickpeas is enclosed. The program and registration brochure is enclosed. You should plan on staying at the Best Western motel in Moscow; the location of the meeting.

Enclosed is the data on 'Maxi' and 'Miranda' peas that you requested. Maxi was tested only at Pullman.

I am looking forward to meeting you at the Symposium in February. Take care.

Sincerely,

F. J. MUEHLBAUER
Research Geneticist

Enclosure

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Table 6. Summary of the commercial yield trial, green and yellow peas - 1981

Variety or Selection	Nodes to First Bloom	Plant Height	Wt. 100 Seeds	Yield						Mean
				Pullman WA	Colfax WA	Walla Walla WA	Moses Lake WA	Genesee ID	Grange- ville ID	
		-cm-	-g-	-kg ha ⁻¹ -						
IMPCS	9	120	17.3	4201	2190	3932	1948	4785	201	2876
WA610860	11	117	15.9	4173	2179	3695	1976	4361	203	2764
Garfield	14	131	17.8	3840	1660	3686	2959	4154	202	2750
Latah	14	156	17.0	4486	1577	3496	1773	4388	144	2644
79-2108-1	10	89	13.2	4370	2003	4342	949	3816	85	2594
Code 29-79	15	71	24.9	3974	1853	3211	2391	3982	149	2593
Tracer	13	111	14.2	4273	2387	3383	1357	3991	68	2577
Tara	20	125	17.4	4136	1175	3424	2634	3848	87	2551
Marrowfat Primo	14	74	26.8	3601	1040	3117	2988	3963	141	2475
79-WI-1	9	83	13.9	4065	1657	3735	953	4092	72	2429
69190	9	75	13.8	3270	2029	4255	99	3923	76	2275
Finale	14	55	24.1	3317	1581	2729	2161	3518	137	2240
Alaska	10	147	15.3	3881	1363	3120	660	4126	71	2203
Paloma	15	70	22.1	3145	1547	2523	1839	3279	25	2060
Gentry	9	111	15.8	3655	1673	3320	945	3204	103	2043
Campbell Scotch 44	9	100	15.8	3201	1543	3695	462	3159	102	2027
Marrowfat N Z	13	74	25.8	2865	715	2852	2123	2563	78	1973
Cebeco 102 ('maxi')	14	56	26.5	3082	1060	2416	964	1992	111	1604
Mean	12	98	18.7	3752	1624	3385	1621	3730	114	2371
C.V. (%)	9	19	3.4	7	22	10	51	9	25	18
L.S.D. (.05)	1	13	0.4	195	246	243	582	240	20	47
Planting date				5/7/81	5/28/81	4/15/81	4/17/81	4/18/81	5/29/81	
Harvest date				8/19/81	8/31/81	8/10/81	8/5/81	8/12/81	9/3/81	

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Table 7. Two year (1980, 1981) average yields of commercial green and yellow pea varieties.

Variety or Selection	Yield		Mean
	1980	1981	
	- - - - -kg ha^{-1} - - - - -		
IMPCS	----	2876	2876
WA610860	----	2764	2764
Garfield	----	2750	2750
Latah	4688	2644	3666
79-2108-1	3041	2594	2594
Code 29-79	----	2593	2593
Tracer	----	2577	2577
Tara	3928	2551	3240
Marrowfat Primo	----	2475	2475
79-WI-1	2719	2429	2574
69190	2663	2275	2469
Finale	3565	2240	2903
Alaska	3394	2203	2799
Paloma	4410	2060	3235
Gentry	----	2043	2043
Campbell Scotch 44	----	2027	2027
Marrowfat NZ	----	1973	1973
Cebeco 102 (MAXI)	----	1604	1604



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Table 8. Summary of the preliminary yield trial, green and yellow peas - 1981

Variety or Selection	Nodes to First Bloom	Plant height	Wt 100 Seeds	Germination	Hard Seed	Yield Pullman
		-cm-	-g-	-%-	-%-	kg ha ⁻¹
WA910431	12.0	132	21.5	99	1.0	4618
WA910119	10.0	136	20.7	90	9.0	4544
WA810624	9.0	123	15.4	97	2.5	4442
WA910368	10.3	113	18.3	97	3.0	4430
WA810623	9.5	116	15.7	99	0.5	4401
WA910982	9.0	123	17.4	98	2.0	4333
Tara	12.8	132	20.5	96	3.5	4314
Tracer	12.5	120	14.8	97	2.0	4289
WA910833	10.3	125	15.6	96	2.0	4267
WA710457	9.5	102	17.0	97	1.5	4241
Alaska Sel. Norm.	9.0	105	15.0	100	0.0	4232
WA910879	9.5	153	16.5	97	2.0	4194
WA710473	8.0	114	16.5	99	0.5	4162
WA910449	11.5	100	16.5	99	1.0	4132
Latah	13.3	136	18.4	96	3.5	4085
WA910936	8.3	148	18.5	98	2.0	4064
WA910526	13.8	132	19.4	93	5.5	4032
WA810293	8.8	108	17.1	93	5.5	4030
WA610860	8.5	142	16.0	100	0.0	4020
WA910374	10.0	127	16.1	94	5.5	4009
WA910473	9.8	115	18.1	95	4.0	3990
WV 135C af	10.5	101	15.8	99	0.5	3977
WA810304	9.0	118	18.4	98	1.5	3922
IMPCCS	9.8	103	20.3	96	3.5	3900
WA910375	7.5	106	16.2	93	7.0	3897
WA9101009	11.5	96	24.1	89	10.5	3816
WA810148	8.8	108	18.9	94	6.0	3814
WA910501	8.5	112	18.4	99	0.5	3808
WA910885	9.8	109	15.5	99	1.0	3781
WA9101135	10.5	103	16.8	99	0.5	3775
WA810321	10.8	117	17.0	88	12.0	3752
WA9101043	7.8	99	18.3	99	0.0	3748
79-2108-1	7.8	87	13.9	99	0.0	3712
WA710564	10.3	126	20.0	96	2.0	3687
WA910427	12.3	138	19.3	95	2.0	3667
WA910994	9.3	117	15.1	99	0.0	3649
WA910134	9.3	108	15.7	99	1.0	3649
WA910815	9.8	121	19.0	99	1.0	3616
WA910285	7.5	113	19.0	100	0.0	3611
WA9101060	10.8	108	16.3	99	0.0	3538

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Table 8. Summary of the preliminary yield trial, green and yellow peas - 1981 (cont.)

Variety or Selection	Nodes to First Bloom	Plant height	Wt 100 Seeds	Germination	Hard Seed	Yield Pullman
		-cm-	-g-	-%-	-%-	kg ha ⁻¹
WA810345	9.5	118	17.1	98	2.5	3482
Miranda	10.8	79	29.4	98	0.0	3478
Garfield	14.0	125	19.3	100	0.0	3475
WA810267	8.5	134	16.9	97	2.5	3463
WA910118	9.5	141	23.2	94	0.5	3456
WA710519	8.8	113	18.6	98	1.0	3450
Alaska af	12.8	122	14.3	99	0.0	3431
WA910409	8.5	96	15.4	100	0.0	3396
WA810154	7.5	92	15.6	100	0.0	3382
69190	7.3	90	14.9	100	0.0	3346
Campbell Scotch 44	7.5	105	16.1	97	2.5	3331
Code 29-79	13.0	78	26.3	95	5.0	3297
WA910255	10.5	119	14.9	94	4.5	3236
WA910422	10.8	90	15.4	94	4.0	3176
WA810264	7.0	104	16.0	96	2.5	3129
WA910260	9.5	76	20.4	99		3114
Cebeco 102 (MAXI)	11.8	78	26.4	93	1.0	3109
WA910138	10.3	125	17.0	98	1.0	3107
WA910456	9.8	84	22.4	97	2.0	3085
WA910101	9.8	93	16.0	99	0.0	2978
WA910262	10.0	64	17.8	99	0.0	2968
WA910539	10.0	123	20.3	100	0.0	2965
WA810494	10.0	61	18.3	92	6.5	2959
Alaska	8.0	115	15.0	97	3.0	2904
Paloma	13.8	63	24.0	98	0.0	2852
WA910474	11.0	97	18.1	95	4.5	2679
Marrowfat USA	12.8	87	24.7	97	2.0	2673
WA788	12.0	80	18.3	98	0.5	2670
Finale	11.8	55	27.3	97	0.0	2598
WA910519	11.8	75	18.6	99	0.0	2399
79-WI-1	7.3	94	16.1	99	0.0	2373
Mean	9.8	108	18.2	97	2.1	3618
C.V. (%)	13.4	16.4	8.6	--	---	20
L.S.D. (.05)	0.43	5.7	0.51	--	---	234

Planting date 5/7/81

Harvest date 8/20/81 thru 8/24/81

P-11111111

MAIL 8 1982

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AMS, LFG&S DNV,
PVPD

Table 1. Characteristics of Selected Field Pea Cultivars at Pullman, WA, 1981 Growing Trial.

<u>Field Pea Cultivar</u>	<u>Seed weight (g)/100 seeds</u>	<u>Plant Height (cm)</u>	<u>Nodes to First Bloom</u>
Miranda	29.4	79	10.8
Paloma	24.0	63	13.8
Alaska	15.0	115	8.0
Alaska (sel.normal)	15.0	105	9.0
Garfield	19.3	125	14.0
Latah <i>4882210</i>	18.4	136	13.3
Tracer	14.8	120	12.5
<hr/>			
L.S.D.L(0.5)	0.51	5.7	0.43

UNITED STATES DEPARTMENT OF JUSTICE

MEMORANDUM FOR THE ATTORNEY GENERAL

DATE: [Faint text]

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PVPO,

PEA APPLICATION NO. 8100054 - MIRANDA PEA

Table 2. Characteristics of Field Pea Cultivars In the Minnesota Trials, 1981

<u>Field Pea Cultivar</u>	<u>Seed Weight/100 Seeds (g)</u>	<u>Planting to Bloom (days)</u>	<u>Maturity(days)</u>	<u>Vine Length (in)</u>
Miranda	32.9	53	87	17
Paloma	28.1	55	92	18
Century	22.0	60	96	44
Lenca	18.1	58	93	37
Tara	19.2	60	94	40
Trapper	13.5	58	93	37

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PEA APPLICATION NO. 8100054 - MIRANDA PEA

Table 3. Comparison of Miranda to Standard U.S. Cultivars of Processing Peas in Holland in 1979-80.

<u>Cultivar</u>	<u>1000 grain * Weight in Grams</u>	<u>Plant Height ** in cm.</u>	<u>Flowering ** (date of 1st flower)</u>	<u>Seed Color Dry</u>	<u>Seed Surface</u>
Miranda	356	66	4 June	yellow	smooth
Paloma	310	64	8 June	yellow	smooth
Alaska 423	213	92	23 May	green	wrinkled
Little Marvel	260	63	27 May	green	wrinkled
Wando	259	62	6 June	green	wrinkled
Alderman	246	155	6 June	yellow	wrinkled
Thomas Laxton	269	122	25 May	yellow	wrinkled

L.S.D. (.05)

9.34g.

6.14cm

0.406 day

*) 2 years average

**) data collected in 1980

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AMS. 1 PGS. DM. P/P/D



FORM GR-470-14
(5-15-74)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
PEA (*PISUM SATIVUM*)

EXHIBIT C
(Pea)

NAME OF APPLICANT(S) Cebeco-Handelsraad	VARIETY NAME OR TEMPORARY DESIGNATION Miranda
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Blaak 31, P.O.B. 182, 3000 AD ROTTERDAM, The Netherlands	FOR OFFICIAL USE ONLY PVPO NUMBER 8100054

Place the appropriate number that describes the varietal character in the boxes below.
Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. TYPE:

1 = GARDEN 2 = FIELD 3 = EDIBLE-PODDED

2. MATURITY:

Node number of first bloom: No. of days to ^{flowering} ~~podding~~ Heat Units

No. of days Earlier than 1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL

No. of days Later than 4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

3. PLANT HEIGHT:

CM. HIGH 5 year average

Cm. Shorter than 1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL

Cm. Taller than 4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

4. VINE:

Habit: 1 = DETERMINATE 2 = INDETERMINATE Stockiness: 1 = SLIM (Alaska) 2 = MEDIUM (Thomas Laxton WR) 3 = HEAVY (Alderman)

Branching: 1 = NONE (Alaska) 2 - 1-2 BRANCHES (Little Marvel) 3 = MORE THAN 2 BRANCHES (Dwarf Gray Sugar)

Internodes: 1 = STRAIGHT 2 = ZIG ZAG NUMBER OF NODES

5. LEAFLETS:

Color: 1 = LIGHT GREEN (Alaska WR) 2 = MED. GREEN (Thomas Laxton WR) 3 = DARK GREEN (Alderman)
4 = OTHER (Specify)

Wax: 1 = NONE 2 = LIGHT 3 = MEDIUM 4 = HEAVY 1 = NOT MARBLED 2 = MARBLED (Alaska)

Number of leaflet pairs: 1 = NOT PAIRED 2 = ONE 3 = TWO 4 = THREE OR MORE

6. STIPULES:

1 = LACKING 2 = PRESENT 1 = NOT CLASPING 2 = CLASPING

1 = NOT MARBLED 2 = MARBLED Size (Compared with leaflets): 1 = SMALLER 2 = SAME 3 = LARGER

Color (Compared with leaflets): 1 = LIGHTER 2 = SAME 3 = DARKER

7. FLOWER COLOR:

VENATION STANDARD WING KEEL } 1 = WHITE 2 = GREENISH 3 = LAVENDER
4 = PURPLE 5 = RED
6 = OTHER (Specify) with green venation

Cepeco-handelaar, Miranda

Blak 31, P.O.B. 182, 3000 AD ROTTERDAM, The Netherlands.

flowering
xxxxx

0 7 0

4

2

2 year average

4

3

2

2 3

2

2

2

14

0 2

0 2

0 6 6

1 6

0 3

1

2

2

2

2

4

2

2

2

2

rec'd
FEB 17 1981 3:00pm
PL

8. PODS:

1 Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED 2 End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)
 1 Color: 3 = CURVED 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman)
 1 Color: 4 = OTHER (Specify) _____
 1 Surface: 1 = SMOOTH 2 = ROUGH 2 Surface: 1 = SHINY 2 = DULL
 2 Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPEE
 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify) _____
 8 1 CM LENGTH 1 4 MM. WIDTH (Between sutures) 0 7 NO. SEEDS PER POD

9. SEEDS (95-100 Tenderometer):

4 Color: 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = OTHER (Specify) light yellowish green
 Sieve: % 1 2 3 4 5 6 7 8 AVERAGE

SEEDS (Dry, Mature):

4 Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED
 1 Surface: 1 = SMOOTH 2 = DIMPLED 2 Surface: 1 = SHINY 2 = DULL
 3 = WRINKLED
 1 Color Pattern: 1 = MONOCOLOR 2 = MOTTLED 3 = STRIPED 4 = DOTTED
 7 Primary Color: { 1 = CREAMY-WHITE 2 = CREAM & GREEN 3 = LIGHT GREEN 4 = MEDIUM GREEN
 5 = DARK GREEN 6 = BLUE-GREEN 7 = YELLOW 8 = BROWN 9 = RED
 Secondary Color: { 10 = GRAY 11 = BLACK
 1 Hilum Floor Color: 1 = WHITE 2 = TAN 3 Cotyledon Color: 1 = GREEN 2 = YELLOW 3 = ORANGE
 3 6 GRAMS PER 100 SEEDS

10. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant) 3 = good resistant

2 FUSARIUM WILT 0 NEAR-WILT 3 DOWNY MILDEW
 3 ASCOCHYTA BLIGHT 0 POWDERY MILDEW 0 BACTERIAL BLIGHT
 0 MOSAIC 0 PEA ENATION MOSAIC 2 YELLOW BEAN MOSAIC
 OTHER (Specify) _____

11. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant) 3 = good resistant

1 APHIDS OTHER (Specify) _____

12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness	Little Marvel	Fresh Seed Color	Alaska
Leaf Color	Thomas Laxton	Mature Seed Color	yellow
Pod Color	Alaska	Seed Shape	rounded
Pod Shape	Little Marvel	Plant Habit	Wando

COMMENTS:

xxx
mm

light yellowish green

3 = good resistant

3	0
0	0
2	0

3 = good resistant

Alaska
yellow
round
long
dark

little Marvel
Thomas Nelson
Alaska
little Marvel

rec'd
FEB 17 1981

3:00 pm
pt

Exhibit DCebeco 402 White pea1. Reference:

Variety name and breeder's number.

Cebeco 402 (Miranda)

Cebeco-Handelsraad. P.O. Box 182
3000 AD ROTTERDAM

2. Origin.

Crossing:

Parentage:

Allround x Ceb. 61.207

Breeding method:

Crossing - plant selection - line
selectionCHARACTERISTICS.

- | | |
|---|--|
| 1. Type:(State for what purpose it is normally utilised.) | Field-pea. (white) (dry harvest protein pea) |
| 2. Maturity: Node number of the first flower. | 14 |
| 3. Number of days from sowing to first inflorescence. | 70 days |
| 4. Number of days earlier/later than wellknown variety | 2 days earlier than Paloma. |
| 5. Plant height: total length. | 66 cm. |
| 6. Plant height: relative to control var. | 64 cm. Paloma |
| 7. Vine: habit | determinate |
| 8. Vine (stockiness.) stiffniss | medium. |
| 9. Vine branching. | medium to strong. |
| 10. Vine internodes. | zig-zag. |
| 11. Vine number of nodes | 23 |
| 12. Leaflets: Colour | medium green. |
| 13. Leaflets: glaucosity | medium to strong |
| 14. Leaflets: number of leaflet pairs | first 2 pairs later on 3 pairs |
| 15. Stipules: absent or present | present. |
| 16. Stipules: clasping - not clasping | clasping |
| 17. Stipules: marbled - not marbled | marbled |
| 18. Stipules: colour - (compared with leaflets) | medium green. |
| 19. Stipules: size (compared with leaflets) | larger than the leaflets. |
| 20. Flower: colour of standard. | white |
| colour of wings | white |
| colour of the keel | white with green venation |
| sharpe of base of standard | straight tot slightly curved. |

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FEB 17 1981 3:00pm
PL

21. Pods: shape.	straight and blunt.
22. Pods: colour.	light green.
23. Pods: surface.	smooth and dull
24. Pods: borne	2 pods
25. Pods: lenght.	8.1 cm
26. Pods: width.	1.4 cm
27. Pods: no. seeds per pod.	7
28. Seeds: (95-100 Tenderometer) Colour.	yellowish-lightgreen
29. Seeds. (dry)Colour.	Yellow.
30. Seeds. shape	rounded.
31. Seeds: surface	smooth
32. Seeds: Hilum floor colour	white
33. Seeds:Cotyledon colour	yellow
34. Desease:Fusarium oxysporum F pisi I	resistant
35. Disease: Top yellows.	resistent.
36. Disease: Downy mildew.	resistent.

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FEB 17 1981 3:00 pm
PL



MIRANDA (white pea):

Authorization :

The Undersigned : Cebeco-Handelsraad
P.O. Box 182
3000 AD Rotterdam
The Netherlands

declare that they are the owners of the new variety Miranda,
white field pea.

They also declare that they authorize:
International Seeds Inc.
P.O. Box 168
Halsey, Oregon
U.S.A.

to submit for and on behalf of them an application for Plant
Variety Protection Certificate in the U.S.A. for the variety
Miranda, white field pea,

to prepare, sign and submit the documents necessary for that
purpose and

to make all attendances upon the Plant Variety Protection Board
relating to the application for Plant Variety Protection
Certificate for their variety Miranda.

Rotterdam, 23-1-1981

Nationale coöperatieve aan- en verkoop-
vereniging voor land- en tuinbouw b.a.
CEBECO-HANDELSRAAD

Alameda (white seed)

Authorization:

The undersigned : Geisco-Handelsmaats
P.O. box 102
3300 AB Rotterdam
The Netherlands

declare that they are the owners of the new variety: Alameda,
white field use.

They also declare that they authorize:
International Seeds Inc.
P.O. box 188
Halsey, Oregon
U.S.A.

to submit for and on behalf of them an application for Plant
Variety Protection Certificate in the U.S.A. for the variety
Alameda, white field use,

to prepare, sign and submit the documents necessary for that
purpose and

to make all arrangements upon the Plant Variety Protection Board
relating to the application for Plant Variety Protection
Certificate for the variety Alameda.

Rotterdam, 22-1-1981

Geisco-Handelsmaats
P.O. box 102
3300 AB Rotterdam
The Netherlands

rec'd
FEB 17 1981

3:00 pm
UPZ

Table 4. Trial field results Cebeco-Handelsraad Lelystad

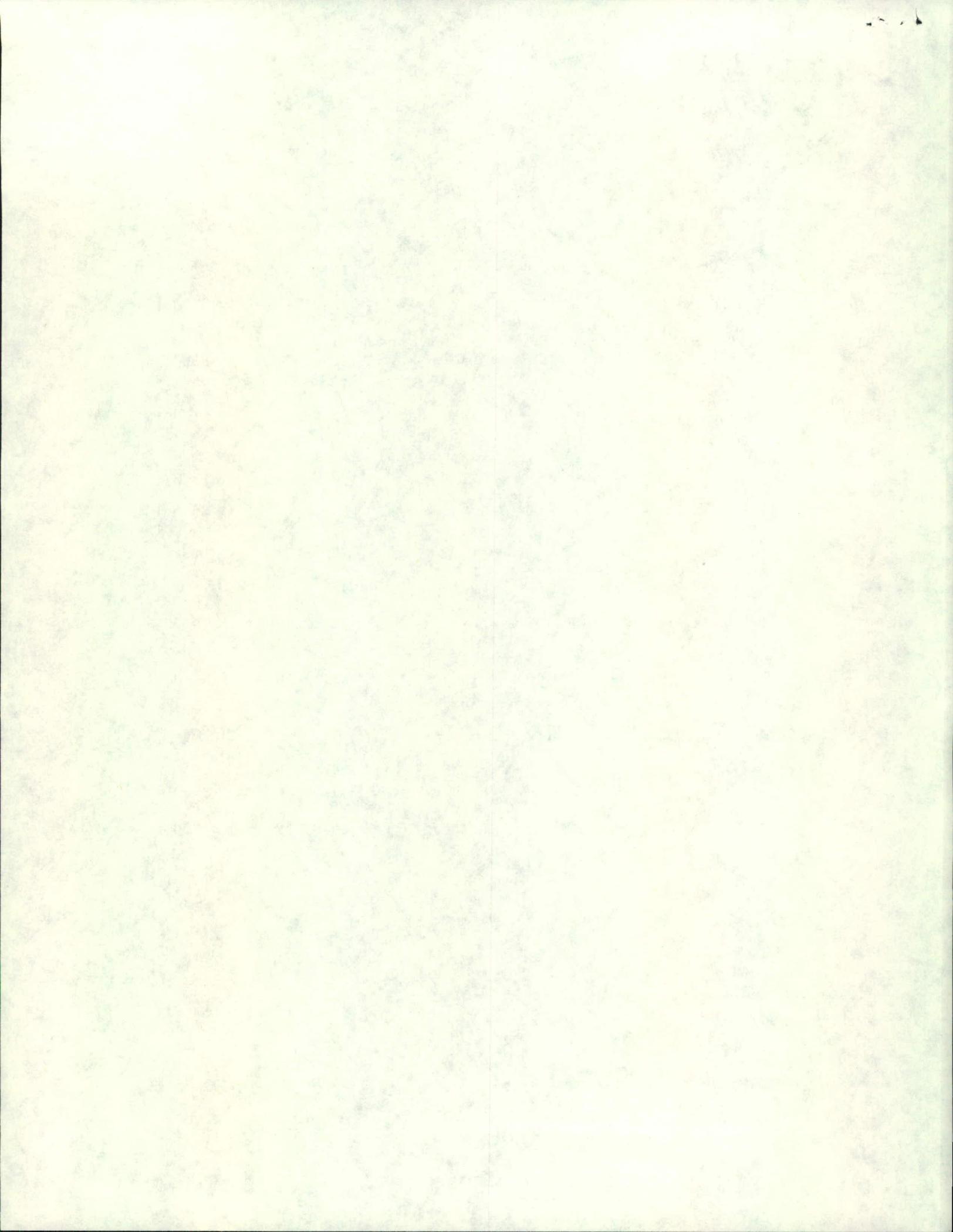
<u>Variety</u>	<u>Ripening</u>			<u>Length of straw</u>	<u>yields rel.</u>					<u>1000-grain weight average 1977 - 1980 incl.</u>
	<u>early</u>	<u>medium-early</u>	<u>medium-late</u>		<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>average</u>	
Paloma		x		69 cm	100	100	100	100	100	292
Miranda	x			70 cm	104,8	99,3	119,1	105,7	107,2	356

100% = 1977 - 6.040 kg/ha
 1978 - 7.580 "
 1979 - 5.930 "
 1980 - 8.010 "

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Varieties of Cebeco Zaden B.V. in the USA

with PVP				
species	variety	name	date of grant	no. grant
Red fescue	Center	Center	88-01-15	8700077
Spring barley	Bellona	Bellona	85-07-26	8300085
	Apex	Apex	85-07-26	8300084
	Efron	Efron	85-10-31	8500012
Perennial ryegrass	Elka	Elka	82-02-18	8100018
White pea	✓ Miranda	Miranda	82-10-28	8100054
	Belinda	Belinda	86-03-31	8500013
Blue pea	Ricardo	Ricardo	85-08-30	8500014
	Maxi	Maxi	83-03-24	8000016
	Othello	Othello	86-03-31	8500015
application made				
Perennial ryegrass	EG 138	Surprise	88-12-19	8900062
Red fescue	Frc 137	Capitol	88-12-19	8900061
	CRU 499	Cindy		
	Frr 130	Claudia		
Kentucky bluegrass	Pp 112	Ampellia		
White pea	1415	Impala	89-1-26	8900081
	1416	Renata	89-04-04	8900145
Blue pea	Solara	Solara	88-01-29	8800056



CEBECO HANDELSRAAD

P.O. Box 182, 3000 AD Rotterdam, The Netherlands Telephone +31 10-4544911 Telex 21398 cbco nl Fax +31 10-4113889
Bank: Rabobank Nederland, Account number 30.00.00.065 Giro bank account Rabobank 5658 stating 30.00.00.065
Address: Blaak 31, 3011 GA Rotterdam

Registered No. 54.571 Rotterdam

• BY AIRMAIL
U.S. Department of Agriculture
Plant Variety Rights Office
PGGI Building 001, room 335, Barc-West
BELTSVILLE
Maryland 20705
• U.S.A.

Dept:
WVDK/tg

Direct dial number: ROTTERDAM,
4544 504 September 22, 1989

Dear Sir/Madam:

You may already know that the Plant Breeding and Seeds Departments of Cebeco-Handelsraad have integrated into the new company CEBECO ZADEN B.V.

Therefore we kindly request you to transfer all varieties, for which an application has been made or which have been entered in the name of Cebeco-Handelsraad, to the name of CEBECO ZADEN B.V.

For the sake of clarity we give you once more the full address:

CEBECO ZADEN B.V.
P.O. Box 182
3000 AD Rotterdam
the Netherlands.

Under this cover you will find a list in which we mention all varieties involved according to the latest data that we have. We shall be pleased to receive your confirmation of transfer at your earliest convenience. Any possible invoice for charges due can be sent to Cebeco Zaden BV.

Yours faithfully,

CEBECO-HANDELSRAAD
• Transferrer

Rotterdam,

CEBECO ZADEN B.V.
Transferee

Rotterdam,

Nationale coöperatieve aan- en verkoop-
vereniging voor land- en tuinbouw b.a.
CEBECO-HANDELSRAAD
.....

CEBECO ZADEN B.V.
Postbus 182 - 3000 AD Rotterdam

Enclosure

