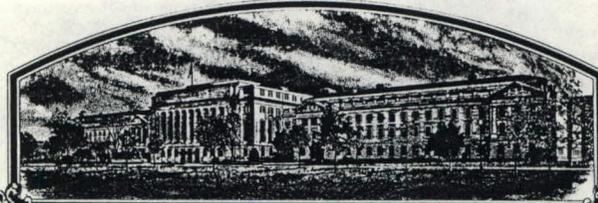


No.

8800042



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Ferry-Morse Seed Company

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, IMPORTING 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 (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN

'Shore'

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, D. C. this 28th day of June in the year of our Lord one thousand nine hundred and ninety-one.

Attest:

Kenneth A. Evans
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Ed Madigan
Secretary of Agriculture



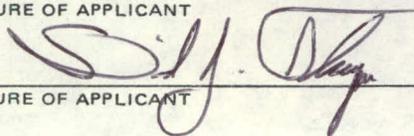
U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

1. NAME OF APPLICANT(S) FERRY-MORSE SEED COMPANY		2. TEMPORARY DESIGNATION FM 208		3. VARIETY NAME SHORE	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 555 CODONI AVENUE P.O. BOX 4938 MODESTO, CALIFORNIA 95352		5. PHONE (Include area code) (209) 579-7333		FOR OFFICIAL USE ONLY PVPO NUMBER 8800042	
6. GENUS AND SPECIES NAME Phaseolus vulgaris L.		7. FAMILY NAME (Botanical) Leguminoisae		FILING DATE December 16 1987 TIME 1:30 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	
8. KIND NAME GARDEN BEAN		9. DATE OF DETERMINATION 1 APRIL 1987		FEES RECEIVED AMOUNT FOR FILING \$ 1800.00 DATE December 7, 1987 AMOUNT FOR CERTIFICATE \$ 200.00 DATE May 28, 1991	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) CORPORATION				12. DATE OF INCORPORATION 7 APRIL 1969	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION CALIFORNIA				12. DATE OF INCORPORATION 7 APRIL 1969	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS DAVID J. THOMPSON FERRY-MORSE SEED COMPANY P.O. BOX 4938 MODESTO, CALIFORNIA 95352 PHONE (Include area code): (209) 579-7333					
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement. c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.) d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of Variety. e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership.					
15. 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) of the Plant Variety Protection Act.) <input type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input checked="" type="checkbox"/> No					
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? N/A <input type="checkbox"/> Foundation <input type="checkbox"/> Registered <input type="checkbox"/> Certified		
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? <input type="checkbox"/> Yes (If "Yes," give date) <input checked="" type="checkbox"/> No					
19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No					
20. The applicant(s) declare(s) that a viable sample of basic seeds 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 Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF APPLICANT 				DATE 4 DECEMBER 1987	
SIGNATURE OF APPLICANT				DATE	

INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds (*furnish only untreated seed*), and \$1,800 fee (\$200 filing fee and \$1,600 examination fee) to the U. S. Department of Agriculture, Agricultural Marketing Service, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See Section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

- 9 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 14a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 14b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 14d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 14e Section 52(4) of the Plant Variety Protection Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.
- 15 If "Yes" is specified (*seed of this variety be sold by variety name only as a class of certified seed*) the applicant may **NOT** reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See Section 180.16 of the Regulations and Rules of Practice.)
- 19 See Sections 41 (i,j) and 42 of the Plant Variety Protection Act and Section 180.7 of the Regulations and Rules of Practice for eligibility requirements.

NOTE: All information submitted in support of an application becomes PUBLIC INFORMATION once the certificate is issued. (See Section 180.17 of the Regulations and Rules of Practice.)



VARIETY: SHORE (formerly FM-208(formerly 1D-X1535-MsLMs(C)Ms(F)5(GH)Ms(C)Ms))

Exhibit A: Origin and Breeding History of the Variety.

Shore was selected as a F_6 single plant selection involving the pedigree method of breeding from the cross designated 1D-X1535. The seed parent of 1D-X1535 was an advanced pedigreed line, E6210; the pollen parent was 1C-X1555-Ms(W)B2Ms. E6210, a sister line of Early Riser, had a very dark green pod color; 1C-X1555-Ms(W)B2Ms, a F_5 progenitor of Javelin, had a very concentrated maturity and slim pods. Cross 1D-X1535 was made in the field at Sun Prairie, Wisconsin, in the summer of 1977.

F_1 seed of 1D-X1535 was planted in the field at Sun Prairie, Wisconsin, in the summer of 1978 and F_2 seed was bulk-massed from 3 plants.

F_2 seed, 1D-X1535-Ms, was planted in a segregating progeny row in Sun Prairie, Wisconsin, in the summer of 1979. The row rated excellent; fifteen single plants were selected and their F_3 seed harvested separately.

F_3 seed from the 15 F_2 selections were planted in progeny rows in Wisconsin in the summer of 1980. The 1D-X1535-MsL row rated good for its heavy yield and medium slim, smooth pods. Three F_3 selections were made in the row and their F_4 seed was bulk-massed.

F_4 seed, 1D-X1535-MsLMs, was planted in a progeny row at San Juan Bautista, California, in the summer of 1981. The row rated good to very good as a fresh market type variety with a tall, upright plant, a high pod height and 6-7 inch, round-oval pods. The F_5 seed from the row was bulk-massed.

F_5 seed, 1D-X1535-MsLMs(C)Ms, was planted in a progeny row in Homestead, Florida, in the fall of 1982. The row was rated good to very good for its early, concentrated yeild. Five single plant selections were taken from the row and their F_6 seed held separately.

F_6 seed of five Florida F_5 selections were planted in pots in the greenhouse at San Juan Bautista, California, in January, 1983. The F_7 seed was harvested separately from each progeny.

F_7 seed from the five Florida F_5 selections was planted to progeny rows in California in the summer of 1983. The 1D-X1535-MsLMs(C)Ms(F)5(GH)Ms row rated very good as a potential dual fresh market/processing variety with a heavy yield of straight, smooth, round pods. F_8 seed was bulk-massed from the row and redesignated FM-208 in anticipation of future evaluation as a possible new variety.

F_8 seed of FM-208 was evaluated in trial in Wisconsin, New York, Tennessee, Oregon, and Florida in 1984. A 250 foot double row bed was grown in California for F_9 seed increase. Trial ratings varied from less than fair to excellent. The planting in California was rated very good, uniform for type, and no off-types.

F₉ seed of FM-208 was further evaluated in trial in Wisconsin, New York, Tennessee, Oregon, and Florida in 1985. The field ratings ranged from better than fair to very good. Two 400 foot double row beds of F₁₀ seed increase in California rated very good and uniform for type; one oval-flt pod off was noted in 100 plants.

F₁₀ seed of FM-208 was evaluated in trial in 1986 in Wisconsin, New York, Tennessee, and Florida, and a one acre increase was grown at San Juan Bautista, California. Trial ratings varied from less than fair to excellent. From the acre planting of approximately 100,000 plants, 95 off type plants were rogued (13 flat-podded, 75 oval-podded, 9 bumpy podded plants), for a frequency 0.1% offs. FM-208 was considered quite stable genetically, and uniform for type.

The decision was made to introduce FM-208 as a new variety on April 1, 1987 and FM-208 was named Shore.

VARIETY: SHORE (formerly FM-208 (formerly 1D-X1535-MsLMs(C)Ms
(F)5(GH)Ms(C)Ms))

Exhibit B: Data Indicative of Novelty

Shore is most similar to the variety Plateau Provider. Shore is distinct from Plateau Provider in having a narrower pod width (suture to suture) and a longer seed (see seed photograph).

Experimental Design: Plants of each variety to be compared were grown in rows side by side. Row length was 20 feet with plants spaced two inches apart in row and rows 30 inches apart in Wisconsin, and 40 inches center to center of double rows in California. When pods reached full diameter and advanced seed development could be felt in the pod, one full pod (no missing seed) was harvested and measured from each plant, up to 100 plants maximum. The harvested pods were allowed to dry; seed from the 100 dried pods was massed together and one hundred seed randomly counted out from the mass for measuring.

In some cases there was a significant departure from normality of the data when testing skewness and kurtosis. In these instances the significance of the differences of the varietal samples was tested with the Mann-Whitney non-parametric test.

Trial 1. Sun Prairie, Wisconsin. Seed planted in the field on June 20, 1985
 One hundred pod widths were measured in millimeters and one
 hundred seed lengths were measured in millimeters.

	<u>Pod Width</u>		<u>Seed Length</u>	
	<u>Shore</u>	<u>Plateau Provider</u>	<u>Shore</u>	<u>Plateau Provider</u>
Mean	9.96+0.049	11.05+0.058	12.55+0.051	10.18+0.047
s ²	0.24	0.33	0.26	0.22
s	0.49	0.58	0.51	0.47
Actual				
Observed range	9.-12.	10.-12.	11.3-14.	8.8-11.3
95% Confidence Interval	8.99-10.93	9.90-12.20	11.54-13.56	9.25-11.11
Coefficient of Variation	4.92	5.25	4.06	4.62
Difference of Means		1.09		2.37
<u>Test for Homogeneity of Variance</u>				
F		1.38		0.85
Probability		0.06		0.79
<u>Test for Normality</u>				
skewness	0.4245	0.0041	0.1896	-0.0236
T-value	1.7588	0.0168	0.7855	-0.0976
Probability	0.0409*	0.4933	0.2170	0.4612
kurtosis	3.6713	0.0935	0.2577	0.5600
T-value	7.6752	0.1955	0.5387	1.1708
Probability	0.0000**	0.4227	0.2956	0.1222
<u>Student's T-Test for Significant Difference</u>				
T-value				14.42
Probability				<0.001**
<u>Mann-Whitney Test</u>				
Test Criterion (U)		976.0000		2.0000
Normal deviate (z)		9.8568		12.2652
Probability		0.0000**		0.0000**

* = significance at the 0.05 level of probability

** = significance at the 0.01 or less level of probability

Trial 2. Sun Prairie, Wisconsin. Seed planted in the field on June 3, 1986. One hundred pod widths were measured in millimeters and one hundred seed lengths were measured in millimeters.

	Pod Width		Seed Length	
	Shore	Plateau Provider	Shore	Plateau Provider
Mean	9.22±0.85	10.05±0.89	12.92±0.78	10.88±0.70
s ²	0.72	0.80	0.62	0.49
s	0.85	0.89	0.79	0.70
Actual				
Observed range	7.0-12.0	8.-12.	11.5-15.8	9.3-12.5
95% Confidence Interval	7.53-10.91	8.28-11.81	11.35-14.52	9.49-12.27
Coefficient of Variation	9.22	8.86	6.11	6.43
Difference of Means		0.83		2.04
<u>Test for Homogeneity of Variance</u>				
F		1.106		1.247
Probability		0.3086		0.137
<u>Test for Normality</u>				
skewness	0.0671	0.1624	1.0848	0.2604
T-value	0.2782	0.6726	4.4942	1.0786
Probability	0.3907	0.2514	0.0000**	0.1417
kurtosis	0.2223	0.4278	1.5295	-0.1416
T-value	0.4648	0.8943	3.1976	-0.2960
Probability	0.3215	0.1867	0.0009**	0.3839
<u>Student's T-Test for Significant Difference</u>				
T-value		6.74		
Probability		<0.001**		
<u>Mann-Whitney Test</u>				
Test Criterion (U)		2600.50		201.0000
Normal deviate (z)		5.8762		11.7617
Probability		0.0000**		0.0000**

* = significance at the 0.05 level of probability

** = significance at the 0.01 or less level of probability

Trial 3. San Juan Bautista, California. Seed planted in the field on July 10, 1986. One hundred pod widths were measured in millimeters and 100 seed lengths were measured in millimeters.

	<u>Pod Width</u>		<u>Seed Length</u>	
	<u>Shore</u>	<u>Plateau Provider</u>	<u>Shore</u>	<u>Plateau Provider</u>
Mean	9.4±0.045	10.83±0.065	11.87±0.056	10.68±0.067
s ²	0.20	0.42	0.32	0.44
s	0.45	0.65	0.56	0.67
Actual				
Observed range	8.3-10.5	8.5-12.5	10.5-13.	9.3-12.5
95% Confidence Interval	8.51-10.29	9.54-12.12	10.76-12.98	9.35-12.01
Coefficient of Variation	4.79	6.0	4.72	6.27
Difference of Means		1.43		1.19
<u>Test for Homogeneity of Variance</u>				
F		2.136		1.39
Probability		0.0000**		0.0515
<u>Test for Normality</u>				
skewness	0.1226	-0.5853	-0.1097	0.3685
T-value	0.5080	-2.4248	-0.4545	1.5264
Probability	0.3063	0.0086**	0.3252	0.0650
kurtosis	0.3267	1.3346	-0.5311	0.2131
T-value	0.6830	2.79	-1.1103	0.4454
Probability	0.2481	0.0032**	0.1348	0.3285
<u>Student's T-Test for Significant Difference</u>				
T-value				13.65
Probability				<0.001**
<u>Mann-Whitney Test</u>				
Test Criterion (U)		428.5		895.5
Normal deviate (z)		11.2298		10.0832
Probability		0.0000**		0.0000**

* = significance at the 0.05 level of probability

** = significance at the 0.01 or less level of probability

Trial 4. Sun Prairie, Wisconsin. Seed planted in the field on June 16, 1987. One hundred pod widths and 100 seed lengths were measured in millimeters.

	<u>Pod Width</u>		<u>Seed Length</u>	
	<u>Shore</u>	<u>Plateau Provider</u>	<u>Shore</u>	<u>Plateau Provider</u>
Mean	9.0±0.09	10.03±0.122	13.37±0.081	10.81±0.069
s ²	0.81	1.48	0.65	0.48
s	0.90	1.22	0.81	0.69
Actual				
Observed range	6.-10.	7.-12.	11.-15.5	9.5-12.5
95% Confidence Interval	7.21-10.79	7.61-12.45	11.76-14.98	9.44-12.18
Coefficient of Variation	10.0	12.16	6.06	6.38
Difference of Means		1.03		2.56
<u>Test for Homogeneity of Variance</u>				
F		1.837		1.445
Probability		0.0014**		0.0343*
<u>Test for Normality</u>				
skewness	-0.9365	-0.2636	-0.0757	0.3054
T-value	-3.8797	-1.0919	-0.3135	1.2652
Probability	0.0001**	0.1388	0.3773	0.1044
kurtosis	0.7856	0.4820	0.2911	-0.0694
T-value	1.6425	-1.0077	0.6087	-0.1451
Probability	0.0518*	0.1580	0.2721	0.4425
<u>Student's T-Test for Significant Difference</u>				
T-value				36.87
Probability				<0.001**
<u>Mann-Whitney Test</u>				
Test Criterion (U)		2594.5000		108.0000
Normal deviate (z)		5.9039		11.9866
Probability		0.0000**		0.0000**

* = significance at the 0.05 level of probability

** = significance at the 0.01 or less level of probability

Trial 5. San Juan Bautista, California. Seed planted in the field on June 19, 1987. One hundred pod widths and 100 seed lengths were measured in millimeters.

	<u>Pod Width</u>		<u>Seed Length</u>	
	<u>Shore</u>	<u>Plateau Provider</u>	<u>Shore</u>	<u>Plateau Provider</u>
Mean	9.21+0.047	10.06+0.05	12.82+0.08	11.07+0.075
s ²	0.22	0.26	0.64	0.57
s	0.47	0.51	0.80	0.75
Actual				
Observed range	8.3-10.8	9.3-11.5	10.5-15.	9.-13.
95% Confidence				
Interval	8.28-10.14	9.05-11.07	11.23-14.41	9.58-12.56
Coefficient				
of Variation	5.10	5.07	6.24	6.78
Difference				
of Means		0.85		1.75
<u>Test of Homogeneity of Variance</u>				
F		1.181		1.132
Probability		0.2047		0.2693
<u>Test for Normality</u>				
skewness	0.3865	0.2869	-0.2962	-0.1520
T-value	1.6013	1.1886	-1.2273	-0.6297
Probability	0.0562*	0.1187	0.1113	0.2652
kurtosis	0.3448	-0.0200	0.5396	0.1814
T-value	0.7208	-0.0417	1.1281	0.3793
Probability	0.2364	0.4834	0.1310	0.3526
<u>Student's T-Test for Significant Difference</u>				
T-value		12.38		15.89
Probability		<0.001**		<0.001**
<u>Mann-Whitney Test</u>				
Test Criterion (U)		1110.00		585.5
Normal deviate (z)		9.54		10.82
Probability		0.0000**		0.0000**

* = significance at the 0.05 level of probability

** = significance at the 0.01 or less level of probability

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
 BELTSVILLE, MARYLAND 20705

EXHIBIT C
 (Bean)

OBJECTIVE DESCRIPTION OF VARIETY
 BEAN (*Phaseolus vulgaris* L.)

NAME OF APPLICANT(S) Ferry-Morse Seed Company	FOR OFFICIAL USE ONLY
	PVPO NUMBER 8800042
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 555 Codoni Ave. P. O. Box 4938 Modesto, CA. 95352-4938	VARIETY NAME OR TEMPORARY DESIGNATION Shore (FM-208)

Place numbers in the boxes (e.g.) for the characters that best describe this variety. Measured data should be for SPACED PLANTS. Ranges may also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: Wisconsin. The location of test area is Sun Prairie, Wisconsin. Please answer questions appropriate for your variety if the information is available.

1. TYPE:

1 = Field (dry-edible) 2 = Garden

2. MARKET MATURITY:

Days to edible pods Days to green shells

Days to dry seeds

Heat units to edible pods Heat units to green shells

Heat units to dry seeds

No. days earlier than }
 Same as }
 No. days later than }

1 = Tendercrop 2 = Kentucky Wonder
 3 = Kinghorn Wax 4 = White Kidney
 5 = Michelite 62 6 = Dwarf Horticultural
 7 = Bush Blue Lake 290 8 = Other (specify below)
Plateau Provider

3. PLANT:

1 = Determinate 2 = Indeterminate

cm height

cm shorter than }
 Same as } comparison variety from above

cm taller than }

cm spread Number primary branches near base

cm narrower than }
 width same as } comparison variety from above

cm wider than }

Main stalk: 1 = brittle 2 = wirey Branching habit: 1 = compact 2 = open

1 = stout 2 = thin

10

3. PLANT: (Cont'd)

Pod position: 1 = low 2 = high 3 = scattered

Bush form (illustrated below):



1 = spherical bush form

2 = stem bush form

3 = wide bush form

4 = high bush form

5 = other (specify) _____

4. LEAVES:

1 = smooth 2 = wrinkled

1 = dull 2 = glossy

Size: 1 = small (Earliwax) 2 = medium 3 = large (Tendercrop)

Color: 1 = light green (as light or lighter than Bountiful) 2 = medium green
3 = dark green (as dark or darker than Bush Blue Lake 290)

5. FLOWERS:

Color: 1 = white 2 = cream 3 = pink 4 = lilac 5 = purple 6 = Other (specify) _____

Days to 50% bloom

6. FRESH PODS: (Edible maturity, average for 20 pods)

Exterior color: 1 = light green (as light or lighter than Bountiful)
2 = medium green
3 = dark green (as dark or darker than Bush Blue Lake 290)
4 = light yellow (Brittlewax)
5 = golden yellow (Cherokee Wax)
6 = green-red variegated (Horticultural)
7 = other (specify) _____

% Sieve size distribution at optimum maturity for non-flat pods

Note:

1 = 4.76 mm to 5.76 mm 4 = 8.34 mm to 9.53 mm
2 = 5.76 mm to 7.34 mm 5 = 9.53 mm to 10.72 mm
3 = 7.34 mm to 8.34 mm 6 = 10.72 mm or larger

1	2	3	4	5	6
0	2%	19%	28%	47%	4%

3 sieve	<input type="text" value="1"/> <input type="text" value="4"/>	cm length	<input type="text" value="0"/> <input type="text" value="9"/>	mm width	<input type="text" value="0"/> <input type="text" value="8"/>	mm thickness
4 sieve	<input type="text" value="1"/> <input type="text" value="4"/>	cm length	<input type="text" value="0"/> <input type="text" value="9"/>	mm width	<input type="text" value="0"/> <input type="text" value="9"/>	mm thickness
5 sieve	<input type="text" value="1"/> <input type="text" value="6"/>	cm length	<input type="text" value="1"/> <input type="text" value="0"/>	mm width	<input type="text" value="1"/> <input type="text" value="0"/>	mm thickness
6 sieve	<input type="text" value="1"/> <input type="text" value="6"/>	cm length	<input type="text" value="1"/> <input type="text" value="1"/>	mm width	<input type="text" value="1"/> <input type="text" value="1"/>	mm thickness

6. FRESH PODS: (Cont'd)

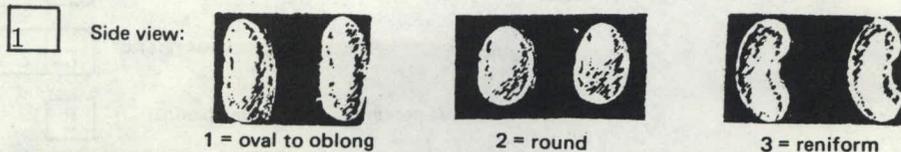
- 3 Cross section pod shape: 1 = flat 2 = oval 3 = round 4 = heart
- 1 Creaseback: 1 = present 2 = absent
- 2 Pubescence: 1 = none 2 = sparse 3 = considerable
- 2 Spur: 1 = straight 2 = slightly curved 3 = curved
- 2 Constrictions: 1 = none 2 = slight 3 = deep
- 2 Pod flesh: 1 = light 2 = medium 3 = dark
- 1 4 mm spur length
- 2 Fiber: 1 = none 2 = sparse 3 = considerable
- 7 Number of seeds per pod
- 1 Surface: 1 = smooth 2 = rough
- 2 Suture string: 1 = present 2 = absent
- 2 Seed development (Snap Bean): 1 = slow 2 = medium 3 = fast
- 1 Machine harvest: 1 = adapted 2 = not adapted
- 1 Pod flavor: (1) Standard (Tendercrop)
 (2) Mild Blue Lake (BBL 274)
 (3) Strong Blue Lake (Pole FM1)
 (4) Mild Romano (Roma)
 (5) Strong Romano (Pole Romano)
 (6) Other (specify) _____

7. SEED COAT COLOR:

- 1 1 = Monochrome 2 = Polychrome 2 1 = shiny 2 = dull
- 1 Primary color: } 1 = white 2 = yellow 3 = buff 4 = tan
- Secondary color: } 5 = brown 6 = pink 7 = red 8 = purple
 9 = blue 10 = black 11 = other (specify) _____
- Color Pattern: 1 = none 2 = splashed 3 = mottled 4 = striped 5 = flecked 6 = dotted
- Secondary color location: 1 = hilar ring 2 = ventral surface
 3 = sides 4 = dorsal surface
 5 = not restricted to any area 6 = combination of location (specify below) _____
- Hilar ring on colored seeds: 1 = absent 2 = narrow 3 = butterfly shaped

8. SEED SHAPE AND SIZE:

- 1 Hilum view: 1 = elliptical 2 = oval 3 = round 2 Cross section: 1 = elliptical 2 = oval 3 = cordate
 4 = round



8. SEED SHAPE AND SIZE: (Cont'd)

2 1 = truncate ends 2 = rounded ends

2 2 gm/100 seed

0 2 gm/100 seed lighter than 8

gm/100 seed same as -

comparison variety from page one

- - gm/100 seed heavier than -

9. ANTHOCYANIN: (1 = absent 2 = present)

1 Flowers

1 Stems

1 Pods

1 Seeds

1 Leaves

10. DISEASE RESISTANCE (0 = not tested 1 = susceptible 2 = resistant):

2 Anthracnose (specify race below)
gamma

0 Fuscous blight

1 Rust (specify race below)
Race 38, 45, 49, 52

0 Red node virus

0 Powdery mildew

0 Pod mottle virus

0 Fusarium root rot

2 Bean common mosaic virus (specify strain below)
New York 15

0 Pythium root rot

2 Mosaic mottle

0 Rhizoctonia root rot

2 Black root

0 Pythium wilt

0 Bean yellow mosaic virus

0 Angular leaf spot

0 Curly top

0 Bacterial wilt

0 Other (specify below)

0 Halo blight (specify race below)

11. INSECT RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

0 Aphids

0 Root knot nematode

0 Leaf hopper

0 Seed corn maggot

0 Lygus

0 Thrips

0 Pod borer

0 Weavils

0 Other (specify below)

12. PHYSIOLOGICAL RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

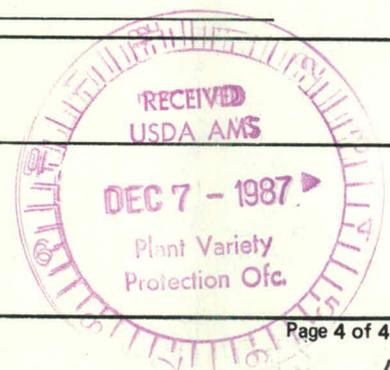
0 Heat

0 Cold

0 Drought

0 Air pollution

13. COMMENTS:



VARIETY: SHORE (formerly FM-208(formerly 1D-X1535-MsLMs(C)Ms(F)5(GH)Ms(C)Ms)

Exhibit D: Botanical Description of the Variety

Germination and emergence is at a medium rate, seedling growth is vigorous. Flowering is midseason but very concentrated in 3 to 5 day interval.

Plant is a bush medium tall, medium narrow, high to medium pod height, well-anchored. Leaflets are medium in size, medium in number, medium green color, medium smooth, moderately pubescent, deltoid ovate shape with rounded to slightly truncated bases.

Flowers are white with 4 to 8 flowers per inflorescence.

Pods are 15-17 cm in length, 9-10 mm "suture to suture" width, 10 mm cross-wall thickness, 12-17 mm spur, smooth, straight, round, medium green. Seed and fiber development are at a moderate rate.

Seed are white, oblong, oval in crosssection, medium to medium small in size.

EXHIBIT "E"

Plant Variety Protection Application

No: 8800042

ASSIGNMENT

I, George C. Emery, agree and hereby do transfer and assign to FERRY-MORSE SEED COMPANY all of my rights, title, and interest in and to that certain variety namely, Snap Bean "SHORE", for which application for Plant Variety Protection Certificate has been filed. This agreement shall be binding on my administrators, successors and assigns.

In Witness Whereof, I have executed this agreement this 20th day of October, 19 87.

BREEDER

George C. Emery