

No.

9200121



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Del Monte Corporation

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 (P.L. 77-1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN

'DMC 08-52'



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 31st day of July in the year of our Lord one thousand nine hundred and ninety-two.

Attest:

Kenneth Howard
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Edward Madison
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2401-2404). Information is held confidential until a certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) DEL MONTE CORPORATION		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME DMC 08-52
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP) One Market Plaza San Francisco, CA 94105		5. PHONE (Include area code) 415-442-4000	FOR OFFICIAL USE ONLY PVPO NUMBER 9200121
6. GENUS AND SPECIES NAME Phaseolus vulgaris L.	7. FAMILY NAME (Botanical) Leguminosae		F I L I N G Date March 9, 1992 Time <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.
8. CROP KIND NAME (Common Name) Garden Bean		9. DATE OF DETERMINATION 11-12-81	F E E S Filing and Examination Fee: \$ 2150. ⁰⁰ Date March 9, 1992 Certificate Fee: \$ 250. ⁰⁰ Date July 6, 1992
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation			R E C E I V E D
11. IF INCORPORATED, GIVE STATE OF INCORPORATION New York	12. DATE OF INCORPORATION 1978		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS David J. Brezner, Esq. Flehr, Hohbach, Test, Albritton and Herbert Four Embarcadero Center #3400 San Francisco, CA 94111 - 4187			
			PHONE (Include area code): 415-781-1989

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

- a. Exhibit A. Origin and Breeding History of the Variety
- b. Exhibit B. Novelty Statement.
- c. Exhibit C. Objective Description of Variety.
- d. Exhibit D. Additional Description of Variety.
- e. Exhibit E. Statement of the Basis of Applicant's Ownership.
- f. Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____
- g. Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States."

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.)
 YES (If "YES," answer items 16 and 17 below) NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
 YES NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
 FOUNDATION REGISTERED CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
 YES (If "YES," through Plant Variety Protection Act Patent Act Give date. _____)
 NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
 YES (If "YES," give names of countries and dates)
 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.

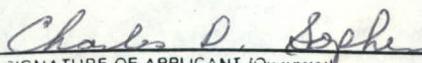
SIGNATURE OF APPLICANT (Owner(s)) 	CAPACITY OR TITLE Director, Agricultural Research and Seed Operations	DATE Feb 10, 1992
SIGNATURE OF APPLICANT (Owner(s))	CAPACITY OR TITLE	DATE

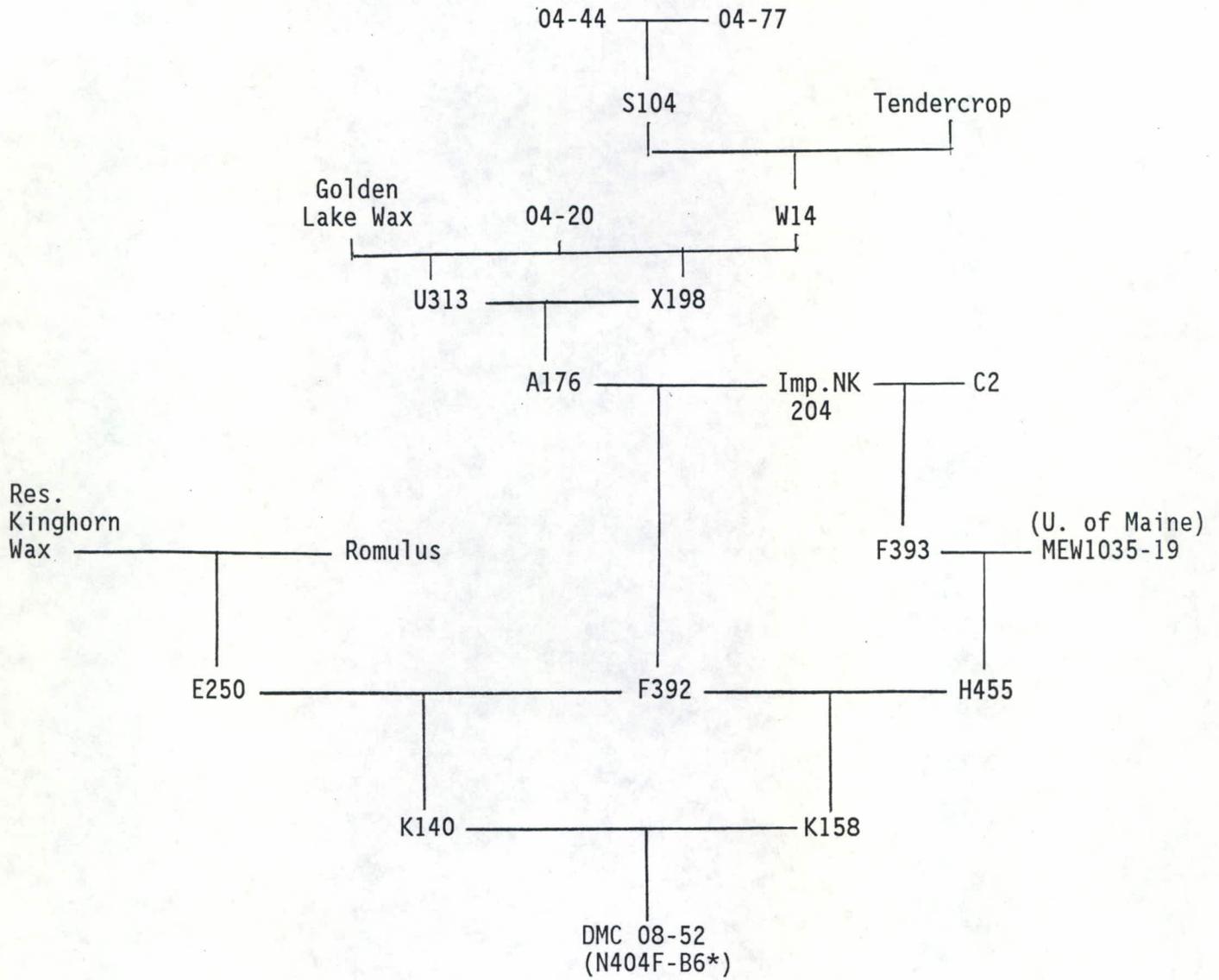
EXHIBIT A

ORIGIN AND BREEDING HISTORY

The pedigree trace of 'DMC 08-52' is shown in Figure 1.

Observations indicate 'DMC 08-52' is uniform and stable within commercially acceptable limits. As is true with other garden bean varieties, a small percentage of variants or off types can occur within commercially acceptable limits for almost any characteristic during the course of repeated multiplications.

Figure 1. The pedigree trace of 'DMC 08-52'.



* Experimental number.

EXHIBIT B

NOVELTY STATEMENT

'DMC 08-52' is classified as an intermediate sieve wax bean and is most similar to 'Goldrush'. However, there are four main traits that distinguish the two varieties.

- o 'DMC 08-52' has better resistance to bacterial brown spot than 'Goldrush'.
- o 'DMC 08-52' pods are more curved than 'Goldrush'.
- o 'DMC 08-52' has better resistance to high temperatures than 'Goldrush'.
- o 'DMC 08-52' is three days earlier maturing than 'Goldrush'.

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) DEL MONTE CORPORATION	FOR OFFICIAL USE ONLY
	PVPO NUMBER 9200121
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) One Market Plaza San Francisco, CA 94105	VARIETY NAME OR TEMPORARY DESIGNATION DMC 08-52

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 Plover. 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
- 3 = Kinghorn Wax
- 5 = Michelite 62
- 7 = Bush Blue Lake 290

- 2 = Kentucky Wonder
- 4 = White Kidney
- 6 = Dwarf Horticultural
- 8 = Other (specify below)

Venture
 9=Goldrush

3. PLANT:

1 = Determinate 2 = Indeterminate

cm height

cm shorter than

Same as ..

cm taller than

cm spread

Number primary branches near base

cm narrower than

width same as ...

cm wider than

comparison variety from above

Branching habit:
 1 = compact 2 = open

Main stalk: 1 = brittle 2 = wirey

1 = stout 2 = thin

3. PLANT: (Cont'd)

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

2 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 1 = smooth 2 = wrinkled

1 1 = dull 2 = glossy

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

1 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:

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

3 9 Days to 50% bloom

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

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

1	2	3	4	5	6
0.5	1.5	17.0	26.0	47.0	8.0

3 sieve 1 2 6 cm length 6 7 mm width 7 1 mm thickness

4 sieve 1 3 9 cm length 7 6 mm width 8 1 mm thickness

5 sieve 1 6 1 cm length 8 8 mm width 9 5 mm thickness

6 sieve 1 6 3 cm length 8 9 mm width 1 0 2 mm thickness

6

6. FRESH PODS: (Cont'd)

3 Cross section pod shape: 1 = flat 2 = oval 3 = round 4 = heart

2 Creaseback: 1 = present 2 = absent

3 Pubescence: 1 = none 2 = sparse 3 = considerable

2 Spur: 1 = straight 2 = slightly curved 3 = curved

2 Constrictions: 1 = none 2 = slight 3 = deep

1 Pod flesh: 1 = light 2 = medium 3 = dark

1 3 5 mm spur length

1 Fiber: 1 = none 2 = sparse 3 = considerable

5 8 Number of seeds per pod

1 Surface: 1 = smooth 2 = rough

2 Suture string: 1 = present 2 = absent

1 Seed development (Snap Bean): 1 = slow 2 = medium 3 = fast

1 Machine harvest: 1 = adapted 2 = not adapted

6 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) Wax (Goldrush)

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

0 Secondary color: 5 = brown 6 = pink 7 = red 8 = purple
 9 = blue 10 = black 11 = other (specify) _____

1 Color Pattern: 1 = none 2 = splashed 3 = mottled 4 = striped 5 = flecked 6 = dotted

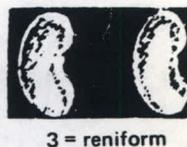
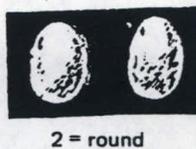
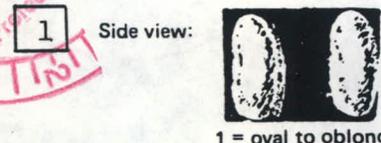
0 Secondary color location: 1 = hilar ring 2 = ventral surface
 3 = sides 4 = dorsal surface
 5 = not restricted to any area 6 = combination of location (specify below) _____

0 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

3 0 gm/100 seed

0 4 gm/100 seed lighter than 1

gm/100 seed same as 0

0 7 gm/100 seed heavier than 9

} comparison variety from page one.

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):

0 Anthracnose (specify race below) _____

0 Fuscous blight

0 Rust (specify race below) _____

0 Red node virus

0 Powdery mildew

0 Pod mottle virus

0 Fusarium root rot

0 Bean common mosaic virus (specify strain below) _____

0 Pythium root rot

Mosaic mottle

0 Rhizoctonia root rot

Black root

0 Pythium wilt

0 Bean yellow mosaic virus

0 Angular leaf spot

0 Curly top

0 Bacterial wilt

2 Other (specify below) Bacterial Brown Spot

0 Halo blight (specify race below) _____

1 Aphanomyces Root Rot

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

Other (specify below) _____

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

2 Heat

0 Cold

0 Drought

0 Air pollution

13. COMMENTS:

EXHIBIT E

STATEMENT OF OWNERSHIP

'DMC 08-52' was developed in the Del Monte bean variety development program. The following Del Monte employees were contributors to the development of this variety: Roger A. Schmitt, Donald T. Caine, Lloyd G. Cruger, Vicki J. Pierce, and Bob Colville.

By agreement between employee and Del Monte Corporation, all rights to any invention, discovery, or development made by an employee while employed by Del Monte Corporation are assigned to Del Monte. No rights to such invention, discovery, or development are retained by the employee.