

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Department of Horticulture
 Auburn University A.E.S.

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 *seventeen* 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 (7 U.S.C. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

MUSKMELON

'Gulfcoast'

*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 19th day of July in
 the year of our Lord one thousand nine
 hundred and seventy-seven.*

Attest:

J. J. Rollins
 Commissioner
 Plant Variety Protection Office
 Grain Division
 Agricultural Marketing Service

Bob Berglund
 Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION Gulfcoast	2. KIND NAME Muskmelon	FOR OFFICIAL USE ONLY	
		PV NUMBER 73071	
3. GENUS AND SPECIES NAME Cucumis melo	4. FAMILY NAME (Botanical) Cucurbitaceae	FILING DATE 3-9-73	TIME 8:30 A.M.
		FEE RECEIVED \$ 250.00	BALANCE DUE \$ 3-9-73
6. NAME OF APPLICANT(S) Dept. of Horticulture Auburn Univ. Agr. Exp. Sta.	5. DATE OF DETERMINATION 1-1-71	\$ 250.00	\$ 4-29-77
		\$ 250.00	\$ 6-7-77
		\$ 250.00	
7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Auburn University Auburn, Alabama 36830	8. TELEPHONE AREA CODE AND NUMBER 205 826-4862	9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) State Univ. Agr. Exp. Sta.	
		10. STATE OF INCORPORATION Alabama	
11. DATE OF INCORPORATION 1872			

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

D. Y. Perkins, Head, Dept. of Horticulture Auburn University, Auburn, Ala. 36830

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, Botanical Description of the Variety
- 13C. Exhibit C, Objective Description of the Variety
- 13D. Exhibit D, Data Indicative of Novelty
- 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

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

14B. Does the applicant(s) specify that this variety be limited as to number of generations? YES NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? FOUNDATION REGISTERED CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes 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 is informed that false representation herein can jeopardize protection and result in penalties.

8/9/73
(DATE)

8-9-73
(DATE)

Donald Y. Perkins
(SIGNATURE OF APPLICANT)
D. Y. Perkins, Head, Dept. of Horticulture

Joseph D. Norton
(SIGNATURE OF APPLICANT)
D. Norton, Professor, Breeder 00001

Exhibit AOrigin and History of the Gulfcoast Variety

1. 'Gulfcoast' is an inbred line from the cross Southland x P.I. 140471 as shown in the pedigree (see attached leaflet No. 82, Auburn Univ. Agr. Exp. Sta., Gulfcoast - A Sweet Cantaloupe for the Produce Chain Store Market). Following the cross, a backcrossing and disease screening program was followed with selection of disease resistant seedlings and high quality fruit. Thus, 'Gulfcoast' originated from a program of backcrossing and inbreeding to obtain resistance to gummy stem blight (Mycosphaerella citrullina, downy mildew (Pseudoperonospora cubensis), and powdery mildew Spherotheca fuliginea.
2. Pure line selections were made in progeny from the third backcross based on disease resistance and fruit quality. Yield tests were made at five locations in Alabama and 22 locations in the Southern Region for four years (see attached leaflet No. 82).
3. The genetic makeup of the variety was stabilized in the fifth generation. (See attached leaflet No. 82).

Exhibit B

Botanical Description of the Gulfcoast Variety

'Gulfcoast' is an early, 75 day, muskmelon and is similar in plant and fruit characteristics to P.M.R. No. 45 but is more vigorous and fruit are higher in soluble solids when grown in Alabama (see attached leaflet No. 82).

The vine is trailing with hirsute stems; leaves shallowly fine lobed with the lobes more or less rounded at the apex. Upper leaf surface grayish green IGY 3/2 ^{1/}. Lower leaf surface, scabrous, moderate olive green 2.5 GY 4/3. Mature leaf length 5 inches, width 5 inches.

Flowers staminate, and perfect. Perfect flowers emerge 10 to 14 days after first staminate flowers appear. Staminate flowers length 0.5 inch, width 1.0 inch. Perfect flowers length 2.0 inches, width 1.0 inches. Petal color vivid yellow 2.5 Y 8/12.

Fruit mostly round, some round oval; slightly ribbed with an extra heavy medium net. Fruit firm; weight 2½ pounds; size 5-6 inches diameter. Color dark orange yellow 10 Y R 5/6. Rind thickness 0.5 inch.

Flesh melting, tender juicy, sweet (12.7% soluble solids), ^{2/}, excellent delicious flavor; thickness 1 3/4 - 2 inches. Typically 3 locules, with 115-125 seeds per locule.

'Gulfcoast' is highly resistant to Pseudoperonospora cubensis (downy mildew), Sporotheca fuliginea (powdery mildew), and Mycosphaerella citrullina (gummy stem blight). It has "field" resistance to Meloidogyne incognita acrita (root-knot nematode).

^{1/} Nickerson color fan, maximum chroma, 40 hues, Nickerson Color Company, Inc.

^{2/} Baush and Lomb Refractometer 0 - 25 scale.

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (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

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY
Muskmelon (Cucumis melo L.)

NAME OF APPLICANT(S) D. Y. Perkins	VARIETY NAME OR TEMPORARY DESIGNATION Gulf Coast
ADDRESS (Street and No., or R.F.D.No., City, State, and ZIP Code) Department of Horticulture, Auburn University Auburn, Alabama 36830	FOR OFFICIAL USE ONLY PVPO NUMBER 73071

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

1. TYPE:

<input type="text" value="5"/>	1 = PERSIAN	2 = HONEY DEW	3 = CASABA	4 = CRENSHAW	5 = COMMON OR SUMMER
	6 = OTHER _____				

2. AREA OF BEST ADAPTATION IN U.S.A.

<input type="text" value="1"/>	1 = SOUTHEAST	2 = NORTHEAST/NORTHCENTRAL	3 = SOUTHWEST	4 = MOST AREAS
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3. MATURITY (FROM SEEDING TO HARVEST):

<input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="5"/>	DAYS						
<input type="text" value="1"/> <input type="text" value="4"/>	NO. DAYS EARLIER THAN	<input type="text" value="3"/>	1 = FORDHOOK GEM (EARLY)				
<input type="text" value="0"/> <input type="text" value="2"/>	NO. DAYS LATER THAN	<input type="text" value="4"/>	2 = DELICIOUS 51 (MIDSEASON)				
			3 = HONEY DEW (LATE)				
			4 = OTHER (Specify) <u>Hales Best</u>				

4. PLANT:

<input type="text" value="1"/>	1 = ANDROMONOECIOUS	2 = MONOECIOUS	3 = GYNOECIOUS	4 = OTHER _____
<input type="text" value="1"/>	1 = VINE	2 = SEMI-BUSH	3 = BUSH	

5. LEAF (MATURE BLADE OF THIRD LEAF)

<input type="text" value="1"/>	SHAPE:	1 = ORBICULAR	2 = OVATE	3 = RENIFORM			
<input type="text" value="2"/>	1 = NOT LOBED	2 = SHALLOWLY LOBED	3 = DEEPLY LOBED				
<input type="text" value="3"/>	1 = LIGHT GREEN (HONEY DEW)	2 = MEDIUM GREEN	3 = DK. GREEN (RIO GOLD)				
<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="7"/>	mm LENGTH	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="7"/>	mm WIDTH				
<input type="text" value="1"/>	SURFACE:	1 = PUBESCENT	2 = GLABROUS	3 = SCABROUS			

6. FRUIT (AT EDIBLE MATURITY):

<input type="text" value="1"/> <input type="text" value="6"/>	cm LENGTH	<input type="text" value="1"/> <input type="text" value="6"/>	cm DIAMETER	<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="5"/>	gm WEIGHT		
<input type="text" value="3"/>	SHAPE:	1 = OBLATE	2 = OVAL	3 = ROUND	4 = ELONGATE-CYLINDRICAL	5 = SPINDLE	6 = ACORN
<input type="text" value="2"/>	SURFACE:	1 = SMOOTH	2 = NETTED	3 = CORRUGATED	4 = WARTED		
<input type="text" value="1"/>	BLOSSOM SCAR:	1 = OBSCURE	2 = CONSPICIOUS				
<input type="text" value="2"/>	RIBS:	1 = ABSENT	2 = PRESENT				
<input type="text" value="0"/> <input type="text" value="9"/>	NO. RIBS PER FRUIT	<input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="0"/>	mm RIB WIDTH AT MEDIAL	<input type="text" value="2"/>	RIBS:	1 = SMOOTH	2 = NETTED

SUTURES:

<input type="text" value="1"/>	1 = SHALLOW (GOLDEN DELIGHT)	2 = MEDIUM	3 = DEEP (HACKENSACK)			
<input type="text" value="2"/>	1 = SMOOTH	2 = NETTED				
<input type="text" value="3"/>	SHIPPING QUALITY:	1 = POOR (HOME GARDEN)	2 = FAIR (SHORT DISTANCE SHIPPING)			
		3 = EXCELLENT (LONG DISTANCE SHIPPING)				

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<input type="text" value="1"/>	FRUIT ABSCISE:	1 = WHEN RIPE	2 = WHEN OVERRIPE	3 = DO NOT ABSCISS
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Exhibit D

Data Indicative of Novelty of Gulfcoast Variety

Novelty is based on the unique combination of the following characters:

'Gulfcoast' is ^{MOST R/S} similar to its one parent Southland, except it has (1) a high level of resistance to Mycospharella citrullina (gummy stem blight), (2) field resistance to Meloidogyne incognita acrita (root-knot nematode), (3) 0.30 lb. smaller fruit, and (4) 0.9 percent higher in soluble solids of fruit. (see attached leaflet No. 82).

Exhibit EStatement of Applicants Ownership of 'Gulfcoast' Variety

The Department of Horticulture, Auburn University Agricultural Experiment Station, Auburn University, Auburn, Alabama believes it is the sole original and first breeder of the Gulfcoast variety of Muskmelon for which it solicits a certificate of protection.

7. RIND NET:

3 1 = ABSENT 2 = SPARSE 3 = ABUNDANT

2 DISTRIBUTION: 1 = SPOTTY 2 = COVERS ENTIRE FRUIT

1 COARSENESS: 1 = FINE 2 = MEDIUM COARSE 3 = VERY COARSE

3 INTERLACING: 1 = NONE 2 = SOME 3 = COMPLETE

1 INTERSTICES: 1 = SHALLOW 2 = MEDIUM DEEP 3 = DEEP

rec. 1 p.m.
2/8/77
dw

8. RIND TEXTURE:

2 1 = SOFT 2 = FIRM 3 = HARD

2 5 mm THICKNESS AT MEDIAL

9. RIND COLOR (AT EDIBLE MATURITY):

COLORS: (SELECT TWO WHEN NECESSARY, i.e., CREAMY YELLOW 0 2 0 4)

01 = WHITE 02 = CREAM 03 = BUFF 04 = YELLOW 05 = GOLD 06 = GREEN 07 = ORANGE 08 = BRONZE

09 = BROWN 10 = GRAY 11 = BLACK 12 = OTHER (Specify) None

0 4 0 7 PRIMARY COLOR

0 0 1 0 NET COLOR

0 0 1 2 MOTTLING COLOR

0 6 0 7 FURROW (SUTURE) COLOR

RIND COLOR (AT FULL MATURITY)

0 0 0 7 PRIMARY COLOR

0 0 1 0 NET COLOR

0 0 1 2 MOTTLING COLOR

0 0 0 7 FURROW (SUTURE) COLOR

10. FLESH (AT EDIBLE MATURITY):

COLORS: (SELECT TWO WHEN NECESSARY, i.e., CREAMY YELLOW 2 3)

1 = WHITE 2 = CREAM 3 = YELLOW 4 = GREEN 5 = ORANGE 6 = SALMON 7 = PINK

8 = OTHER (Specify) _____

0 5 COLOR NEAR CAVITY

1 3 REFRACTOMETER % SOLUABLE SOLIDS (CENTER OF FLESH)

0 7 % SOLUABLE SOLIDS FOR CHECK VARIETY (Specify variety Hales Best)

2 AROMA: 1 = ABSENT 2 = FAINT 3 = STRONG

1 FLAVOR: 1 = MILD 2 = SOMEWHAT SPICY 3 = VERY SPICY

3 5 COLOR IN CENTER

3 5 COLOR NEAR RIND

11. SEED CAVITY:

6 1 mm LENGTH

6 1 mm WIDTH

1 SHAPE IN X-SECTION: 1 = CIRCULAR 2 = TRIANGULAR

12. SEEDS:

3 7 5 NO. PER FRUIT

2 5 8 gm PER 1,000

13. DISEASE RESISTANCE * (0 = UNTESTED, 1 = SUSCEPTIBLE, 2 = RESISTANT)

0 BACTERIAL WILT	0 ROOT ROT	0 CROWN BLIGHT	0 MELON RUST
2 POWDERY MILDEW	0 VERTICILLUM WILT	0 SULPHUR BURN	0 SCAB
0 WATERMELON MOSAIC	2 DOWNY MILDEW	0 FUSARIUM WILT	2 ROOT KNOT (NEMATODE)
0 ANTHRACNOSE	0 CUCUMBER MOSAIC	0 SQUASH MOSAIC	0 OTHER _____
		2 OTHER <u>Gummy Stem Blight</u>	0 OTHER _____

* STATE GENUS, SPECIES, AND RACES WHEN KNOW, UNDER ITEM 16.

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14. INSECT RESISTANCE: (0 = UNTESTED, 1 = SUSCEPTIBLE, 2 = RESISTANT)

<input type="checkbox"/> 0	APHID	<input type="checkbox"/> 0	PICKLE WORM	<input type="checkbox"/> 0	DARKLING GROUND-BEETLE	<input type="checkbox"/> 0	BANDED CUCUMBER BEETLE
<input type="checkbox"/> 0	MITE	<input type="checkbox"/> 0	WESTERN SPOTTED CUCUMBER BEETLE	<input type="checkbox"/> 0	MELON LEAFHOPPER	<input type="checkbox"/> 0	OTHER (Specify)
<input type="checkbox"/> 0	MELON WORM	<input type="checkbox"/> 0	WESTERN STRIPED CUCUMBER BEETLE	<input type="checkbox"/> 0	MELON LEAFMINER		

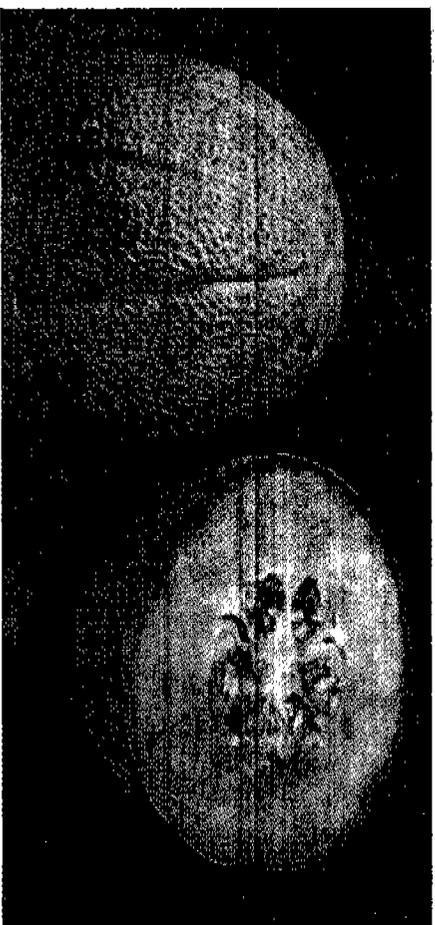
15. NAME A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED FOR THE FOLLOWING CHARACTERISTICS:

CHARACTER	VARIETY	CHARACTER	VARIETY
DAYS MATURITY	Hales Best	FRUIT SHAPE	Gulfstream
PLANT VIGOR	Gulfstream	RIND COLOR	Gulfstream
PLANT HABIT	PMR #45	FLESH AROMA	Gulfstream
FRUIT NETTING	PMR #45	FLESH FLAVOR	Gulfstream
FRUIT SIZE	PMR #45	FLESH COLOR	Gulfstream

16. ADDITIONAL INFORMATION AND COMMENTS:

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GULFCOAST — a sweet cantaloupe for the produce chain store market

JOSEPH D. NORTON*

GULFCOAST, a new cantaloupe variety adapted for growing in Southeastern United States, has been released by Auburn University Agricultural Experiment Station. It has relatively high resistance to downy mildew (*Pseudoperonospora cubensis*) and powdery mildew (*Erysiphe cichoracearum*) and high resistance to gummy stem blight (*Mycosphaella citrullina*). The variety produces high yields of excellent quality fruit suitable for packing for the commercial market.

Prevalence of foliar diseases, particularly downy mildew and gummy stem blight, and susceptibility of existing varieties to these diseases has discouraged the growing of cantaloupes in the South-

east. Introduction of the high quality, disease resistant variety Southland (3) in 1970 demonstrated that high quality fruits could be produced in this humid region. Because of its large fruit size, Southland is not suitable for packing for the commercial market. However, Gulfc coast produces smaller fruits that meet needs of the commercial market.

ORIGIN

Gulfc coast originated at Auburn from a program of backcrossing and inbreeding to obtain resistance to gummy stem blight, downy mildew, and powdery mildew. It is an inbred line from the cross AC-68-11 x PI 140471, as shown by the pedigree on page 2. Following the cross, a backcrossing and disease screening program was followed with selection of dis-

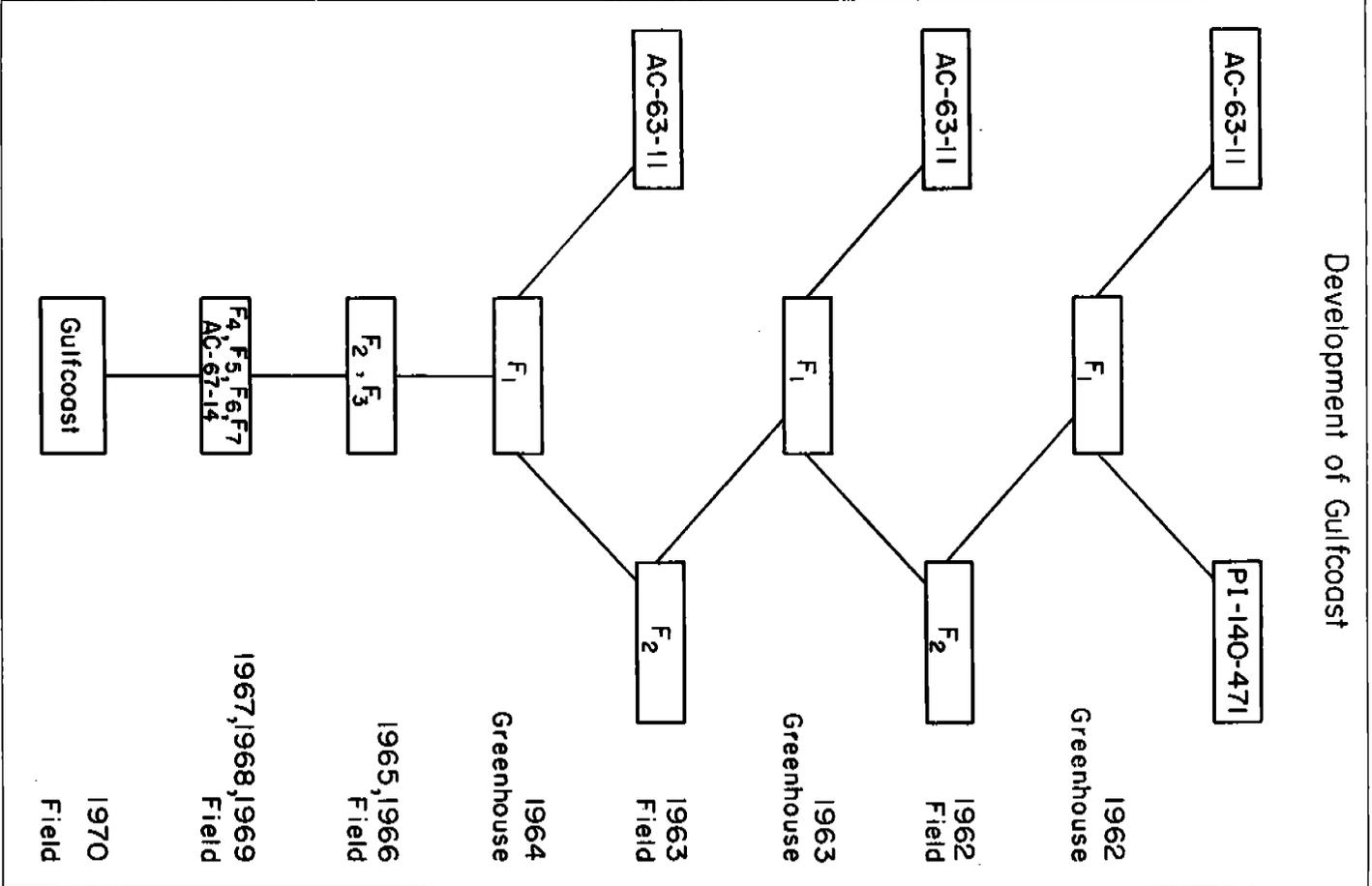
* Associate Professor, Department of Horticulture.

AGRICULTURAL EXPERIMENT STATION
AUBURN UNIVERSITY Auburn, Alabama

E. V. Smith, Director

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Development of Gulfc Coast



ease resistant seedlings that produced high quality fruit.

DISEASE RESISTANCE

Gulfc Coast has been rated for resistance to gummy stem blight, downy mildew, and powdery mildew in tests at several locations in Alabama and other Southern States. The high level of resistance to gummy stem blight, secured from PI 140471 (2,4), was incorporated into the breeding lines through a screening program that utilized an incubation chamber and greenhouse to eliminate susceptible plants from the populations. Resistance to downy mildew and powdery mildew was obtained from Georgia 47 and Florisun through AC-63-11 (1). Gulfc Coast plants exhibited excellent general disease resistance in field plantings during 1967-70.

FRUIT

The fruits of Gulfc Coast are mostly round or round-oval in shape, although many are more rounded than round-oval. They are slightly ribbed and well covered with a medium net. Fruit size varies at different fertility levels and in different production areas, but averages close to 2½ pounds with a diameter of 5-6 inches, see table. Adequate size for the commercial pack of 24 and 27 size melons may be assured with adequate fertility and irrigation. Since this is smaller than "Jumbo" melons, the grower should either market them with wholesale produce buyers or with other outlets for high quality fruit.

The fruit are very firm and adapted to handling in commercial markets. Flesh is firm at the full slip stage, but it softens to an excellent condition for dessert quality in 3 to 4 days.

The flesh is thick, deep orange in color, and of excellent flavor and aroma. Seed cavity is small. The fruit matures in 70-75 days, approximately the same as Hales Best Jumbo and Southland.

Gulfc Coast has been grown as AC-67-14 in trials at Auburn and at a number of substations of the Auburn University Agricultural Experiment Station, in the Southern Cooperative Cantaloupe Vari-

AVERAGE YIELD, FRUIT WEIGHT, AND SOLUBLE SOLIDS OF CANTALOUPE VARIETIES GROWN IN FIVE ALABAMA LOCATIONS, 1964-1970

Variety	Average all locations		
	Yield per acre	Fruit weight	Soluble solids
	Lb.	Lb.	Lb.
Gulfc Coast*	18,347	2.72	12.7
Southland	18,838	3.02	11.8
Hales Best			
Jumbo	10,288	2.77	6.6
Edisto 47	17,180	3.05	10.2

* Averages for Gulfc Coast are for 1967, 1968, 1969, and 1970 only.

ety. Trials in other Southeastern States, and in demonstration plantings by commercial growers.

Gulfc Coast compares favorably with established varieties in shipping quality and edible quality as indicated by taste and soluble solids, see table.

ACKNOWLEDGMENTS

The author gratefully acknowledges the assistance of Grover Sowell, Jr., Pathologist, USDA Southeastern Plant Introduction Station, Experiment, Georgia, for discovery of resistance to *Mycosphaerella citrullina* and for counseling in screening techniques with the organism. The mode of inheritance of resistance to *Mycosphaerella citrullina* was determined by Krishna Prasad, former graduate assistant, Department of Horticulture, Auburn University. Essential assistance was rendered by C. C. Carlton and K. C. Short, Chilton Area Horticulture Substation, in increasing seed for grower trials and conducting variety trials.

Valuable assistance was rendered by G. T. Sharman, Foundation Seed Stocks Farm; Jordan Langford, Plant Breeding Unit; M. H. Hollingsworth, North Alabama Horticulture Substation; H. F. Yates and J. E. Barrett, Gulf Coast Substation; and C. A. Brogden, Wiregrass Substation, in increasing seed and conducting yield trials.

The assistance of participants in the Southern Cooperative Cantaloupe Variety Trials is also acknowledged.

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LITERATURE CITED

- (1) JAMISON, F. S., J. MONTELARO, AND J. D. NORTON. 1962. Two New Cantaloupes for Florida Growers. Univ. of Fla. Agr. Exp. Sta. Cir. S-139A.
- (2) NORTON, JOSEPH D. 1968. Southland Cantaloupe—Auburn Developed Variety Fits Southern Need. Auburn Univ. (Ala.) Agr. Exp. Sta. Highlights of Agr. Res. Vol. 15, No. 4.
- (3) _____ 1970. Southland—A Large Cantaloupe for the South. Auburn Univ. (Ala.) Agr. Exp. Sta. Leaf. 79.
- (4) PRASAD, KRISHNA AND J. D. NORTON. 1967. Inheritance of Resistance to *Mycosphaerella citrullina* in Muskmelon. Proc. Amer. Soc. for Hort. Sci. 91:396-400.
- (5) SOWELL, GROVER, KRISHNA PRASAD, AND J. D. NORTON. 1966. Resistance of *Cucumis melo* Introductions to *Mycosphaerella citrullina*. Plant Dis. Rep. 50:661-663.

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