

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Speight Seed Farms, Inc.

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, OR 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. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS SEEDS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TOBACCO

'Speight G-140'

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 11th day of April in
 the year of our Lord one thousand nine
 hundred and seventy-seven

Attest:

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

Bob Speight
 Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION Speight G-140	2. KIND NAME Flu-cured tobacco	FOR OFFICIAL USE ONLY	
		FVPO NUMBER 72140	
3. GENUS AND SPECIES NAME Nicotiana Tobacum	4. FAMILY NAME Solanaceae-Nightshade	FILING DATE 6/5/72	TIME 8:00 A.M.
	5. DATE OF DETERMINATION December 1971	FEE RECEIVED \$ 750.00	CHARGES
6. NAME OF APPLICANT(S) Speight Seed Farms, Inc.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) R.F.D. #1 P. O. Box 507 Winterville, N. C. 28590	8. TELEPHONE AREA CODE AND NUMBER (919)756-0718	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)		10. STATE OF INCORPORATION Speight Seed Farms, Inc.	11. DATE OF INCORPORATION January 1, 1972

12. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- 12A. Exhibit A, Origin and Breeding History of the Variety (See Section 52, P.L. 91-577)
- 12B. Exhibit B, Botanical Description of the Variety
- 12C. Exhibit C, Objective Description of the Variety
- 12D. Exhibit D, Particulars of Trial Performance
- 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed that is planted to produce the variety commercially will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. (See Section 52, P.L. 91-577).

13A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 142, P.L. 91-577) (If "Yes," answer 13b and 13c below.) YES NO

13B. Does the applicant(s) specify that this variety be limited as to number of generations? YES NO

13C. If "Yes" to 13B, how many generations of production beyond breeder seed? three generations
foundation, Registered, Certified

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

M. L. Grimsley
Speight Seed Farms, Inc.
P. O. Box 507
Winterville, N. C. 28590

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is entitled to protection under the provisions of Section 42 and is distinct, uniform, and stable as required in Section 41 of the Plant Variety Protection Act (P.L. 91-577).

May 29, 1972
(DATE)


(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

00001

SPEIGHT SEED FARM

BREEDERS, REGISTERED AND CERTIFIED SEED

7200140

TOBACCO SEED - SOYBEANS - SMALL GRAINS - HYBRID CORN

TELEPHONE (919) 756-0718

WINTERVILLE, N. C. 28590

12-AExhibit-A---Origin & Breeding History of the VarietyName-----Speight G-140Pedigree-----Speight G-3 x Speight G-7

1. In July of 1957 we crossed Vesta 30 on Coker 187. Results of this cross were numbered B-3. After some years of individual plant selections from B-3 we ended up with the variety Speight G-3. This was an excellent variety except for early buttons and for this reason it was never released as a variety.
2. Then in 1964 we crossed our Speight G-3 on Speight G-7. Results from this cross (G-3 x G-7) were numbered J-14. It was grown and selected in our disease infected nursery through the sixth generation. Out of these individual plant selections came a selection numbered J-14-G which in its sixth generation was named Speight G-140.
3. Variants during this period were mostly two off-type plants. The majority of the off-types were of a narrow stringy type. The other variant was a tall plant with large fan shaped leaves spaced about four inches apart. The type we were selecting for resembled G-7 somewhat except for being clean of bottom suckers with a larger stronger stalk. Leaves were longer.
4. Speight G-140 became stable in its fifth generation and was tested in the N. C. official variety test and by Speight Seed Farms for one year before entering it into the regional small plot test. During the same years it was being tested on Speight Seed Farms and by some tobacco farmers. It was found to be true to type and stable in all these tests.

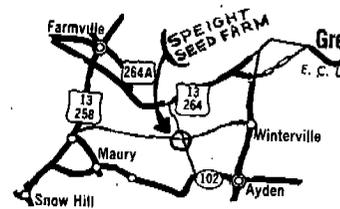
Signed: *M. L. Grimsley*
M. L. Grimsley
Title: Breeder

SPEIGHT SEED FARM

WINTERVILLE, N. C. 28590



GOOD SEED OF AN ADAPTED VARIETY IS THE FOUNDATION OF A GOOD CROP



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SPEIGHT SEED FARM**7200140**

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED - SOYBEANS - SMALL GRAINS - HYBRID CORN

TELEPHONE (919) 756-0718

WINTERVILLE, N. C. 28590

12-B

Exhibit: Botanical Description of the VarietyName: Speight G-140Pedigree: Speight G-7 x Speight G-3

1. Seeds of Speight G-140 are smaller than Hicks, about the same in size as Speight G-7. It is a normal green growing plant. It grows off flat, with large broad leaves close to the ground. They hang parallel to the ground as they mature. It grows a large seed head with normal pink and white flowers, maybe slightly more white than pink.

2. This variety has few ground suckers, about half as many as Speight G-7. Height of plants is 45 inches compared to NC 2326 at 43 inches and Speight G-7 at 45 inches. Leaves are broad in width (12 to 13 inches), with good length (22 to 25 inches), compared to NC 2326 at about 11 to 12 inches in width and 21 to 24 inches in length.

3. Leaves hang parallel to the ground, are fairly smooth similar to Speight G-7 except some longer. G-140 flowers in 60 days compared to NC 2326 in 57 days and G-7 in 58 days. The plant type of G-140 resembles that of G-7 except being about one inch taller and leaves are slightly broader and longer. The cured leaf of Speight G-140 greatly resembles Speight G-7.

4. Disease resistance:

Black Shank-----Moderate

Granville Wilt-----Moderate

Fusarium Wilt-----High

Brown Spot-----Tolerant

M. L. Grimsley

Signed: M. L. Grimsley

Title: Breeder

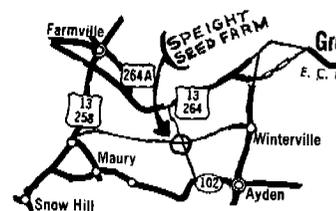
SPEIGHT SEED FARM

WINTERVILLE, N. C. 28590



GOOD SEED OF AN ADAPTED VARIETY IS THE FOUNDATION OF A GOOD CROP

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SPEIGHT SEED FARM

BREEDERS, REGISTERED AND CERTIFIED SEED

7200140

TOBACCO SEED - SOYBEANS - SMALL GRAINS - HYBRID CORN

TELEPHONE (919) 756-0718

WINTERVILLE, N. C. 28590

12-D

Exhibit-D Data Indicative of Novelty

Data from Regional Small Plot Test-1970 and N.C. Official Variety Test

Entry	Yield lbs/A	Value \$/A	Index 4/CWT	Nic. %	Nor. Nic.%	Tot. Alk.%	Nitrogen to Nic.%	Sol Sugar to Nic. %
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1970 Test

N. C. 2326	2323	\$1745.	\$74.97	3.25	.20	3.47	.76	4.10
N. C. 95	2361	1735.	73.40	3.13	.21	3.35	.78	3.90
Speight G-140	2607	1959.	75.06	2.95	.16	3.13	.80	4.48

2. 1969 Test N. C. Official Variety Test over 5 locations

1969 Test

Hicks	2184	\$1568	\$71.75	3.84	.02	2.51	.66	2.90
N. C. 95	2351	1687.	71.99	3.49	.05	2.52	.74	3.02
Speight G-140	2445	1749.	71.56	3.49	.04	2.66	.77	3.16

3. 1971 Test N. C. Official Test over 5 locations

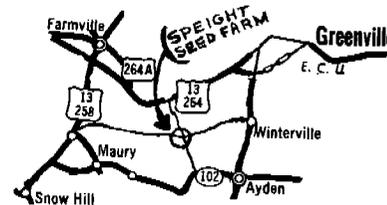
1971 test

N. C. 2326	2280	\$1812.	\$79.43	3.34	.21	2.21	.68	5.20
N. C. 95	2463	1958.	79.49	3.39	.22	2.20	.67	5.10
Speight G-140	2740	2172.	79.23	3.20	.17	2.16	.69	6.05

M. J. Drinsky

SPEIGHT SEED FARM

WINTERVILLE, N. C. 28590



GOOD SEED OF AN ADAPTED VARIETY IS THE FOUNDATION OF A GOOD CROP

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SPEIGHT SEED FARM**7200140**

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED - SOYBEANS - SMALL GRAINS - HYBRID CORN

TELEPHONE (919) 756-0718

WINTERVILLE, N. C. 28590

12-EExhibit E Statement of the Basis of Applicants OwnershipName: Speight G-140Pedigree: Speight G-3 x Speight G-7Release: December 1971OWNER: SPEIGHT SEED FARMS, INC.

M. L. Grimsley, the breeder, is an employee of Speight Seed Farms, Inc.

M L Grimsley

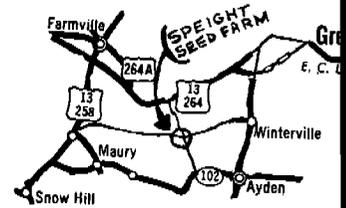
SPEIGHT SEED FARM

WINTERVILLE, N. C. 28590



GOOD SEED OF AN ADAPTED VARIETY IS THE FOUNDATION OF A GOOD CROP

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Speight Seed Farms, Inc.

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED - SOYBEANS - HYBRID CORN

BOX 507 • PHONE (919) 756-0718

WINTERVILLE, N. C. 28590

7200140

12-B-Exhibit B-Botanical Description of the Variety

Name: Speights G-140

Pedigree: Speights G-3 X Speights G-7

Release: Dec. 1971

1. Speights G-140 most closely resembles Coker 319, but differs in maturing 1 day earlier (62 vs 61 days), produces 1 more leaf per plant (19.1 vs 18.3 leaves, grows 3 inches taller (43 vs 40 in), internodes being closer (2.5 vs 2.7 in). Top leaves are 1 inch broader (12.8 vs 11.7). Yields are higher (2572 vs 2296 lbs).

2. Speights G-140 grows greener than C-319, carries less ground suckers (2.6 vs 3.1). Leaves are spaced closer (2.5 vs 2.7 in). They are somewhat broader with about the same length as C-319. G-140 has open seed heads with pink flowers. It flowers 1 day earlier and yields are usually much higher.

Comparison of Varieties in 1972 at Four Locations N. C.

Variety or line	Yield lbs/acre	Days to flower	Leaves per plant	Height of plant	Ground suckers
Coker 319	2296	61	18.1	40 in	3.1
Speights G-140	2572	62	19.3	43	2.6

Variety or line	Width of Leaf (in)			Length of Leaf (in)		
	5th	10th	15th	5th	10th	15th
Coker 319	8.0	9.9	11.7	20.5	24.1	23.3
Speights G-140	8.3	10.9	12.8	19.5	23.8	23.8

% Diseased-Summary of Disease Resistance 1973

Variety or line	Black shank	Bacterial wilt	Root knot	Brown spot
Coker 319	42.7	54.5	susc.	sensitive
Speight G-140	42.0	27.8	susc.	sensitive



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GOOD SEED OF AN ADAPTED VARIETY IS THE FOUNDATION OF A GOOD CROP

Speight Seed Farms, Inc.

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED - SOYBEANS - HYBRID CORN

BOX 507 • PHONE (919) 756-0718

WINTERVILLE, N. C. 28590

7200140

12-B-Exhibit B-Botanical Description of the Variety

Name: Speights G-140

Pedigree: Speights G-3 X Speights G-7

1. Seeds of Speights G-140 are some larger in size than Coker 319. Speights G-140 seedlings grow with a shade greener color. Leaves seem to be some broader in the seedling stage. Leaves are smooth. G-140 grows a larger seed head than C-319. The flowers are more open and pink in color.

2. G-140 has a few less ground suckers than C-319. It grows about 3 inches taller with about 1 more leaf per plant. Leaves are spaced some closer, are about the same length, being 1 inch wider. They are smooth and slightly greener at maturity. G-140 flowers about 3 days later and yields are higher than C-319.

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Speight Seed Farms, Inc.

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED - SOYBEANS - HYBRID CORN

BOX 507 • PHONE (919) 756-0718

WINTERVILLE, N. C. 28590

12-D-Exhibit D-Particulars of Trial Performance

Name: Speights G-140

Pedigree: Speights G-3 X Speights G-7

Release: Dec 1971

Speights G-140 most closely resembles Coker 319, but differs in maturing 1 day earlier (62 vs 61 days), produces 1 more leaf per plant (19.1 vs 18.3 leaves), grows 3 inches taller (43 vs 40 inches), internodes being closer (2.5 vs 2.7 in). Leaves are 1 inch broader (12.8 vs 11.7). Yields are higher (2572 vs 2296 lbs).

Three Year Average Performance 1972-1973-1974
North Carolina Official Test

Variety or lines	Yield lbs/acre	Days to flower	Leaves per plant	Height of plant	Ground suckers
Coker 319	2538	62	18.8	41	1.7
Speights G-140	2857	63	19.7	43	1.6

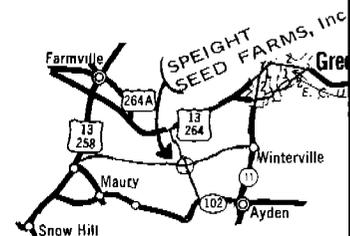
Three Year Average Performance 1972-1973-1974

Variety or line	Nic %	Nor Nic %	Red Sug. %	Tot N. %	Ratios	
					T. N. Nic	Sug Nic.
Coker 319	2.97	.21	14.79	2.31	.80	5.49
Speights G-140	2.87	.22	17.32	2.13	.75	6.46

Variety or line	Black shank	Level of Resistance		Root knot	Brown spot
		Bacterial wilt	Fusarium wilt		
Coker 319	42.7	54.5	68.9	susc	sensitive
Speight G-140	42.0	27.8	70.9	susc	sensitive



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GOOD SEED OF AN ADAPTED VARIETY IS THE FOUNDATION OF A GOOD CROP

OBJECTIVE DESCRIPTION OF VARIETY
Tobacco (*Nicotiana tabacum*)

NAME OF APPLICANT(S) Speight Seed Farms, Inc.	VARIETY NAME OR TEMPORARY DESIGNATION Speight's G-140
ADDRESS (Name and Number, R.F.D. No., City, State, and Zip Code) P. O. Box 507 Winterville, N. C. 28590	PVPD NUMBER 7200140 72140

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. CLASS:

<input checked="" type="checkbox"/> 1 = FLUE-CURED	<input type="checkbox"/> 2 = FIRE-CURED	<input type="checkbox"/> 3 = AIR-CURED	<input type="checkbox"/> 4 = CIGAR FILLER	<input type="checkbox"/> 5 = CIGAR BINDER	<input type="checkbox"/> 6 = CIGAR WRAPPER
<input type="checkbox"/> 7 = MISCELLANEOUS-DOMESTIC	<input type="checkbox"/> 8 = FOREIGN-CIGAR LEAF	<input type="checkbox"/> 9 = FOREIGN-NON-CIGAR LEAF			

AIR CURED: 1 = BURLEY 2 = MARYLAND 3 = DARK AIR-CURED

STANDARD VARIETIES

01 = NC 95	02 = NC 2326	03 = COKER 319	04 = HICKS	05 = SPEIGHT G-28	06 = SC 52
07 = Ky 151	08 = BURLEY 21	09 = BURLEY 49	10 = Ky 10	11 = MARYLAND 609	12 = Ky 165
13 = Pennel 69	14 = HAVANA 503	15 = FLORIDA 17	16 = OTHER		

2. MATURITY (Transplant to 50% plants 1 fl.) (Select code from Standard Varieties listed above)

NO. OF DAYS DAYS EARLIER THAN ...

DAYS LATER THAN ...

3. SEEDING TO TRANSPLANTING (Select code from Standard Varieties listed above)

NO. OF DAYS DAYS EARLIER THAN ...

DAYS LATER THAN ...

4. PLANT HEIGHT (After topping) (Select code from Standard Varieties listed above)

CM TALL CM SHORTER THAN ...

CM TALLER THAN ...

5. LEAF SIZE (At leaf maturity) (Select code from Standard Varieties listed above)

LENGTH		
<input type="text" value="4"/> <input type="text" value="9"/> <input type="text" value="5"/> CM 5TH LEAF	<input type="text" value="6"/> <input type="text" value="0"/> <input type="text" value="4"/> CM 10TH LEAF	<input type="text" value="6"/> <input type="text" value="0"/> <input type="text" value="4"/> CM 15TH LEAF
<input type="text" value="2"/> <input type="text" value="6"/> CM SHORTER THAN ... <input type="text" value="0"/> <input type="text" value="3"/>	<input type="text" value=""/> <input type="text" value="8"/> CM SHORTER THAN ... <input type="text" value="0"/> <input type="text" value="3"/>	<input type="text" value=""/> <input type="text" value=""/> CM SHORTER THAN ... <input type="text" value=""/> <input type="text" value=""/>
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WIDTH		
<input type="text" value="2"/> <input type="text" value="1"/> <input type="text" value="1"/> CM 5TH LEAF	<input type="text" value="2"/> <input type="text" value="7"/> <input type="text" value="7"/> CM 10TH LEAF	<input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="5"/> CM 15TH LEAF
<input type="text" value=""/> <input type="text" value=""/> CM NARROWER THAN ... <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> CM NARROWER THAN ... <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> CM NARROWER THAN ... <input type="text" value=""/> <input type="text" value=""/>
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6. LEAF YIELD (Select code from Standard Varieties listed above)

KG/HA % LESS THAN ...

% MORE THAN ...

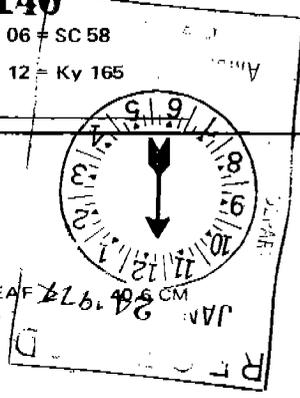
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GROUPING

STANDARD VARIETIES

7200140

- 01 = NC 95 02 = NC 2326 03 = COKER 319 04 = HICKS 05 = SPEIGHT G-28 06 = SC 58
- 07 = Kv 151 08 = BURLEY 21 09 = BURLEY 49 10 = Ky 10 11 = MARYLAND 609 12 = Ky 165
- 13 = Pennbel 69 14 = HAVANA 503 15 = FLORIDA 17 16 = OTHER



7. LEAF NUMBER (Select code from Standard Varieties listed above)

TOPPED NORMAL:

1 9 3 NO. PER PLANT

1 9 3 NO. OF LEAVES > 40.6 CM

1 1 0 CM HEIGHT OF LAST LEAF

NOT TOPPED:

2 2 7 NO. OF LEAVES OR NODES TO "CROWFOOD" FROM 1ST HARVESTABLE LEAF

8. INTERNODES (Topped) (Select code from Standard Varieties listed above)

5 9 MM LENGTH MM SHORTER THAN 3 MM LONGER THAN 0 3

9. LEAF CHARACTERISTICS:

PETIOLE ANGLE:

4 0 DEGREES 2 GROUPING: 1 = < 35° 2 = 35-45° 3 = 46-65° 4 = > 65°

LEAF CARRIAGE

2 1 = ARCHED (DROOPING) 2 = HORIZONTAL 3 = UPRIGHT

LEAF COLOR (At topping or when 50% of plants with 1 flower)

1 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = YELLOW-GREEN 5 = YELLOW

LEAF SHAPE:

3 1 = BROADER THAN LONG 2 = LENGTH EQUALS WIDTH 3 = LONGER THAN BROAD 3 1 = BROADEST AT MIDDLE 2 = BELOW MIDDLE 3 = ABOVE MIDDLE

TIP SHAPE

2 1 = ACUTE 2 = ACUMINATE 3 = OBTUSE

VENATION PATTERN:

2 1 = SQUARE 2 = ANGULAR

LEAF SURFACE

1 1 = SMOOTH (HICKS) 2 = PUCKERED (NC 95)

LEAF MARGIN

2 1 = WAVY 2 = NOT WAVY 2 1 = RECURVED 2 = NOT RECURVED

10. FLOWERS:

2 COLOR: 1 = WHITE 2 = PINK 3 = RED 4 = OTHER

FLOWER HEAD HABIT:

3 1 = CLOSED (NC 95) 2 = INTERMEDIATE 3 = OPEN (HICKS)

11. PLANT FORM

2 1 = PYRAMIDAL 2 = COLUMNAR 3 = OTHER (Specify)

12. GROUND SUCKERS:

2 6 NO. PER PLANT

13. DISEASE (0 = Not tested, 1 = Susceptible, 2 = Resistant)

2 BLACK SHANK (RACES) /

1 FUSARIUM WILT (NICOTIANA)

1 BLACK ROOT ROT

0 FUSARIUM WILT (BATATAS)

1 BLUE MOLD

0 FROGEYE

0 WILDFIRE (SPECIES)

BROWN SPOT Very sensitive

0 BLACKFIRE

1 BACTERIAL WILT

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