No. 7200140

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 CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS [illegible] 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:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

FORM GR-470
(2-1-71)

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSUMER AND MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED
OMB. NO.

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 PVPO NUMBER 72140	
3. GENUS AND SPECIES NAME Nicotiana Tobacum	4. FAMILY NAME Solanaceal-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:

- [X] 12A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52, P.L. 91-577)*
- [X] 12B. Exhibit B, Botanical Description of the Variety
- [X] 12C. Exhibit C, Objective Description of the Variety
- [X] 12D. Exhibit D, Particulars of Trial Performance
- [X] 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.)* [X] YES [ ] NO

13B. Does the applicant(s) specify that this variety be limited as to number of generations? [X] 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)

M. L. Grimsley
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

CHARLIE L. DAVIS L. C. SPEIGHT J. BRANTLEY SPEIGHT

SPEIGHT SEED FARM

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED – SOYBEANS – SMALL GRAINS – HYBRID CORN

TELEPHONE (919) 756-0718

WINTERVILLE, N. C. 28590

7200140

12-A

Exhibit-A----Origin & Breeding History of the Variety

Name---------Speight G-140

Pedigree-----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.

M. L. Grimsley

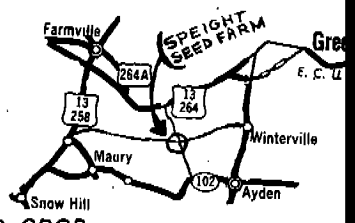
Signed: M. L. Grimsley

Title: Breeder

SPEIGHT SEED FARM

WINTERVILLE, N. C. 28590

KNOWN ORIGIN QUALITY SPEIGHT'S SEEDS ADAPTABILITY



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

CHARLIE L. DAVIS L. C. SPEIGHT J. BRANTLEY SPEIGHT

SPEIGHT SEED FARM

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED – SOYBEANS – SMALL GRAINS – HYBRID CORN

TELEPHONE (919) 756-0718

WINTERVILLE, N. C. 28590

7200140

12-B

Exhibit: Botanical Description of the Variety

Name: Speight G-140

Pedigree: 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:

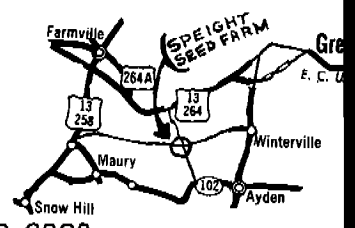
Black Shank----------Moderate
Granville Wilt----------Moderate
Fusarium Wilt----------High
Brown Spot----------Tolerant

M. L. Grimsley

Signed: M. L. Grimsley
Title: Breeder

SPEIGHT SEED FARM
WINTERVILLE, N. C. 28590

KNOWN ORIGIN QUALITY SPEIGHT'S SEEDS ADAPTABILITY



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

CHARLIE L. DAVIS L. C. SPEIGHT J. BRANTLEY SPEIGHT

SPEIGHT SEED FARM

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED – SOYBEANS – SMALL GRAINS – HYBRID CORN

TELEPHONE (919) 756-0718

WINTERVILLE, N. C. 28590

7200140

12-D

Exhibit-D Data Indicative of Novelty

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

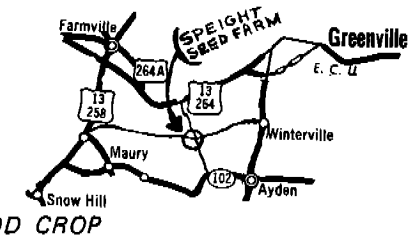
Entry 1.	Yield lbs/A	Value $/A	Index 4/CWT	Nic. %	Nor. Nic.%	Tot. Alk.%	Nitrogen to Nic.%	Sol Sugar to Nic. %
1970 Test								
N. C. 2326	2323	$1745.	$74.97	3.25	.20	3.47	.76	4.10
N. C. 95	2361	1735.	73.40	3.13	.21	3.35	.78	3.90
Speight G-140	2607	1959.	75.06	2.95	.16	3.13	.80	4.48
2. 1969 Test N. C.Official 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 L Grimsley

SPEIGHT SEED FARM

WINTERVILLE, N. C. 28590

KNOWN ORIGIN QUALITY SPEIGHT'S SEEDS ADAPTABILITY



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

CHARLIE L. DAVIS L. C. SPEIGHT J. BRANTLEY SPEIGHT

SPEIGHT SEED FARM

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED – SOYBEANS – SMALL GRAINS – HYBRID CORN

TELEPHONE (919) 756-0718

WINTERVILLE, N. C. 28590

7200140

12-E

Exhibit E Statement of the Basis of Applicants Ownership

Name: Speight G-140

Pedigree: Speight G-3 x Speight G-7

Release: December 1971

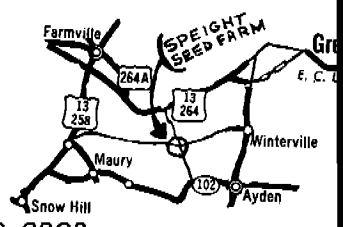
OWNER: SPEIGHT SEED FARMS, INC.

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

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.

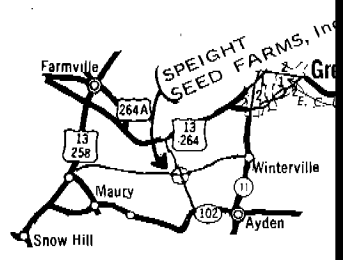
Variety or line	Yield lbs/acre	Days to flower	Leaves per plant	Height of plant	Ground suckers
Coker 319	2296	61	18.1	40 in	3.1
Speights G-140	2572	62	19.3	43	2.6

Variety or line	Width of Leaf (in) 5th	10th	15th	Length of Leaf (in) 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

KNOWN ORIGIN QUALITY SPEIGHT'S SEEDS ADAPTABILITY



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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.

7200140

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

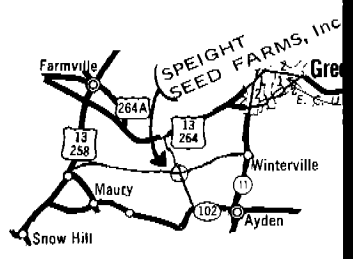
Three Year Average Performance 1972-1973-1974

Variety or line	Nic %	Nor Nic %	Red Sug. %	Tot N. %	Ratios T. N. Nic	Ratios 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	Level of Resistance: Black shank	Bacterial wilt	Fusarium wilt	Root knot	Brown spot
Coker 319	42.7	54.5	68.9	susc	sensitive
Speight G-140	42.0	27.8	70.9	susc	senstive

KNOWN ORIGIN QUALITY SPEIGHT'S SEEDS ADAPTABILITY

00011



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

FORM GR-470-31
(12-16-74)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

OBJECTIVE DESCRIPTION OF VARIETY

Tobacco (Nicotiana tabacum)

NAME OF APPLICANT(S)

Speight Seed Farms, Inc.

ADDRESS (Number and Street or R.F.D. No., City, State, and Zip Code)

P. O. Box 507
Winterville, N. C. 28590

VARIETY NAME OR TEMPORARY DESIGNATION

Speight's G-140

PVPO NUMBER 7200140
72140

Place the appropriate number that describes the varietal character in the boxes below.
Place a zero in first box (e.g. 0 8 9 or 0 9 when number is either 99 or less or 9 or less.

1. CLASS:

7 — 1 = FLUE-CURED 2 = FIRE-CURED 3 = AIR-CURED 4 = CIGAR FILLER 5 = CIGAR BINDER 6 = CIGAR WRAPPER 7 = MISCELLANEOUS-DOMESTIC 8 = FOREIGN-CIGAR LEAF 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 58
07 = Ky 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

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

62 NO. OF DAYS

[ ] DAYS EARLIER THAN . . . [ ]
1 DAYS LATER THAN 03

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

78 NO. OF DAYS

[ ] DAYS EARLIER THAN . . . [ ]
2 DAYS LATER THAN 03

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

109 CM TALL

[ ] CM SHORTER THAN . . . . . [ ]
8 CM TALLER THAN 03

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

LENGTH

	5TH LEAF	10TH LEAF	15TH LEAF
	495 CM 5TH LEAF	604 CM 10TH LEAF	604 CM 15TH LEAF
	2.6 CM SHORTER THAN 03	.8 CM SHORTER THAN 03	. CM SHORTER THAN . . [ ]
	. CM LONGER THAN . . . . . [ ]	. CM LONGER THAN . . . . . [ ]	1.3 CM LONGER THAN . . 03

WIDTH

	5TH LEAF	10TH LEAF	15TH LEAF
	21.1 CM 5TH LEAF	27.7 CM 10TH LEAF	32.5 CM 15TH LEAF
	. CM NARROWER THAN . . . [ ]	. CM NARROWER THAN . . . [ ]	. CM NARROWER THAN [ ]
	.8 CM WIDER THAN 03	2.5 CM WIDER THAN 03	2.6 CM WIDER THAN 03

6. LEAF YIELD (Select code from Standard Varieties listed above)

2881 KG/HA [ ] % LESS THAN . . . . . [ ] 13 % MORE THAN 03

00008

7200140

GROUPING. STANDARD VARIETIES

01 = NC 95	02 = NC 2326	03 = COKER 319	04 = HICKS	05 = SPEIGHT G-28	06 = SC 58
07 = Ky 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 > 40.6 CM

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