No.



TO ALL TO WHOM THESE PRESENTS SHALL COME: North Usicolinst Agricultural IResearch Service 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 APPLI-CANT(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 EX-DE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR 'USING UT' IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDEDBYTHE PLANT VARIETY PROTECTION ACT 542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TOMATO

8200075

'Cherokee'

In Lestimony Whereot, 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 27th day of January in the year of our Lord one thousand nine hundred and eighty-three.

Secretary of Agriculture

Attast

Semulto IV, Warren Schuler Commissioner Plant Variety Protection Office Grain Division Agricultural Marketing Scroics

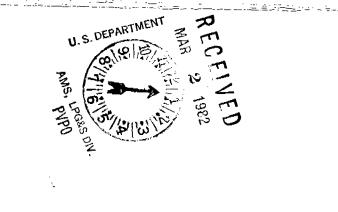
	U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE				
LIVESTOCK, MEAT, GRAIN &SEED D	No certificate for plant variety protection				
APPLICATION FOR PLANT VARIETY PROTE (Instructions on reverse)	ECTION CERTIFICATE	may be issued unless a completed appli- cation form has been received (5 U.S.C. 553),			
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME			
North Carol i na Agri cul tural Research Servi ce	NC $BC_1 - 32$	Cherokee			
4. ADDRESS (Street and No. or R.F.O. No., City, State, and Zip Code,) 5. PHONE (Include area code)	FOR OFFICIAL USE ONLY			
P. O. Box 5847 North Carolina State University Raleigh, NC 27650	(919) 737-2718	8200075			
	 ME (Botanical)				
		2 <u>3/2/82</u>			
Lycopersicon esculentum Solanad	ceae	і тіме 1:00 ДА.М. <u>х</u> Р.М.			
8. KIND NAME 9	. DATE OF DETERMINATION	AMOUNT FOR FILING			
tomato	Aug. 28, 1981	§ 500.00 > DATE -0 -3/2/82 AMOUNT FOR CERTIFICATE			
10. IF THE APPLICANT NAMED IS NOT A '*PERSON," GIVE FOR	M OF ORGANIZATION (Corporation)	AMOUNT FOR CERTIFICATE			
partnership, association, etc.) A subdivision of the School of Agricult	• •	S \$ <u>250.00</u> <u></u>			
NCSU, Raleigh, NC with responsibility f					
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		1/11/83 12. date of incorporation			
N/A		N/A			
Ral eigh, NC 27650 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBM 2 D Exhibit A, Origin and Breeding History of the Variety (See	- Estitit C. Obiesting De	scription of the Variety (Request form			
a. Section 52 of the Plant Variety Protection Act.)	c. X from Plant Variety Pr	otection Office.)			
b. Exhibit B, Novelty Statement	d. 🛣 Exhibit D, Additional	Description of the Variety 4/578 CUB purt.			
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VAR SEED7 (See Section 83(a) of the Plant Variety Protection Act,)		ONLY AS A CLASS OF CERTIFIED MAN items .16 and .17 below)			
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS7	17. IF ····YES* TO ·HTEM ·16,·· BEYOND BREEDER SEE	WHICH - CLASSES - OF - PRODUCTION D?			
Yes No 18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VAR	Foundation RIETY IN THE U.S. OR OTHER COU	Registered Certified			
		Yes (If "Yes," give names of COUN tries and dates)			
		X No			
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER CO	UNTRIES/	Yes (If "Yes, "give names of countries and dates)			
		€] No			
20. The applicant(s) declare(s) that a viable sample of basic seeds	s of this variety will be furnished	tê⊐			
plenished upon request in accordance with such regulations	• • • • • • • • • • • • • • • • • • • •				
The undersigned applicant(s) is (are) the owner(s) of this so distinct, uniform, and stable as required in Section 41, and Variety Protection Act.	exually reproduced novel plant va is entitle d to protection under th	utety, and believe(s) that the variety is the provisions of Section 42 of the Plant			
Applicant(s) is (are) informed that false representation here	in can jeopardize protection and	result in penalties.			
SIGNATURE OF APPLICANT		DATE			
A.J. Jalema		2/25/5-			
SIGNATURE OF APPLI¢ANT (OATE			

INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, 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.

<u>Item</u>

- 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.
- 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 differences are significant; 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.
- 15 If "Yes" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may <u>NOT</u> 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.)
- 18 See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.





TOMATO

'Cherokee'

13A. Exhibit A:

Pedigree: 'Walter' x 'Ace 55VF' \downarrow F_2 x 'Walter' F_7 = 'Cherokee'

'Cherokee', an inbred line in the F generation, was developed by the pedigree system of breeding. An F₂ selection from the cross of 'Walter' x 'Ace 55VF' was crossed with 'Walter' and selfed to the F generation. Single plant selections were made in the F₁ through F generations and special bulks were made in the F₅ and F₆. Seedling inoculation tests. in the greenhouse showed the F₂ and advanced generations to be homozygous resistant to race 1 (Ve gene) of Verticilium dahliae. The F₄ was determined homozygous resistant to races 1 and 2 (I, I-2 genes) of Fusarium oxysporum f. sp. lycopersici in greenhouse seedling inoculation tests.

'Cherokee' appeared stable and uniform in the F, through F generations in research station plots and in trials of several thousand plants in grower fields. The only offtypes observed were infrequent male steriles, which did not exceed the percentage normally seen in other varieties.

13B. Exhibit B. Novelty Statement

'Cherokee' is most similar to 'Walter'. 'Cherokee' differs from 'Walter' in having the \underline{u} and \underline{Ve} genes, both derived from 'Ace 55VF'. The \underline{u} gene gives uniform green shoulder color of unripe fruit, and the Ve gene confers resistance to race 1 of Verticillium dahliae.

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۰ ۲	U.S. DEPARTMENT AGRICULTURAL MAR LIVESTOCK, GRAIN, BELTSVILLE, MA	RETING SERVICE AND SEED DIVISION	8200075
t se	OBJECTIVE DESCRI TOMATO <u>(Lycopersicon</u>	PTION OF VARIETY esculentum Mill.)	
North	Name of applicant Carolina Agricultural Research Service	Temporary designation NC BC -32	Variety Name Cherokee
	Address (Street. and No. or R.F.D. No., Cit P. O. Box 5847 North Carolina State University Raleiah. NC 27650		FOR OFFICIAL USE ONLY PVPO NUMBER
	Choose responses which best represent your single quantitative value is requested (e. mean of an adequate, unbiased sample of p compared with at least one well-known stan grown in the same trial(s). The character grown under normal conditions of culture trial data are from greenhouse or fi or transplanted X Give locations and June-Sept., 1978-1981 Use leading ze Complete this form as fully as possible	g. fruit weight), your plants. The applicant va- dard check variety of the s on this form should he for the variety. Indicate eld <u>x plantings. Tri</u> dates of trials <u>Fletch</u> roes when necessary (e.g	answer should be the ariety should be he same type, and be described from plants te by a check whether als direct-seeded der. North Carolina
	<pre>1. SEEDLING: (2-15 cm, well-illuminated) 2 Anthocyanin in hypocotyl: 1 = ak 1 Cotyledon: l-nor</pre>		
	<pre>2. MATUREPLANT: 3 Growth: 1 = indeterminate 2 = 3 Size (compared to others of its g 2 Habit: 1 = sprawling (decumbent) 2 Foliage cover: 1 = light 2 = n</pre>	<pre>growth type): 1 = small 2 = semi-erect 3 =</pre>	2 = medium 3 = large
	<pre>3. STEM: 2 Internode length (between the 1st 1 = short () 2 = c² Branching: 1 = sparse (Brehm's S 3 = profuse (UC82) 2 Branching at cotyledonary or firs 2 Pubescence: 1 = smooth (no long 3 = densely hairy on 3 = densely hairy on 1 = few () 2 = In 1 = few () 2 = In 1 = few () 2 = In No. of nodes (leaves) between inf Thickness: 1 = slender, weak 2</pre>	intermediate (Walter) olid Red) 2 = interm t leafy node: 1 = prese hairs) 2 = sparsely have canescent lorescence:	3 = long () ediate (Walter) ent 2 = absent airy (scattered long hairs)
	 4. LEAF (Mature leaf under the 1st to 3 Type: 1 = tomato 2 = potato Division: 1 = once-pinnate 2 = 3 = biplnnate, many sma 2 Attitude: 1 = semi-erect 2 = Leaflet blade: 1 = thin 2 = med Bases of major leaflets: 1 = eve Margins of major leaflets: 1 = ou 3 = 1 Marginal rolling: 1 = absent 2 	intermediate (pinnate-) 11 leaflets with the la horizontal 3 = droopin ium 3 = thick n 2 = oblique (the side hearly entire 2 = sha deeply toothed or cut,	rge ones ng es offset on petlole) allowly toothed or scalloped

8200075 TOMATO-3 7. FRUIT (3rd fruit of 2nd or 3rd cluster): 1 Shape of transverse section: 0 1=round 2=flattened 3=angular 4=irregular 2 Shape of blossom end: l≃indented 2=flat 3=nippled 4=tapered Shape of stem end: l=flat 2=indented 4 Shape of pistil scar: l=dot **2=stellate 3=linear 4=irregular** Fruit surface: 1 = smooth 2 = slightly fasciated 3 = moderately fasciated Fruit color (mature-green stage): 1 = light green ('Lanai', **VF145-F5)** 2 = Lt. gray-green () 3 = apple green ('Heinz 1439 VF') 4 = dark green () Fruit pattern (mature-green stage): 1 = green shouldered 2 = uniform green 2 \$ Mature fruit color (full-ripe): 1 = white 2 = yellow 3 = tangerine 5 = red 6 = brownish-red4 = pink**7** = greenish 8 = other (specify) Flesh color (full-ripe): 1 =yellow 2 =red 3 =crimson 4 =other 2 Epidermis: 1 = normal 2 = easy-peel Epidermis color: 1 = colorless 2 = yellow Epidermis thickness: 1 = thin 2 = average 3 = thick Thickness of pericarp: 1 = thin (<3 mm) 2 = medium (3-6 mm) 3=thick (> 6 mm) 3 Thickness of **pericarp** of check variety (same scale) Variety: Flora-Dade Core size: 1 = coreless 2 = small 3 = medium 4 = large 2 Core shape: 1 = solid, unbranched 2 = branched Core texture: 1 = soft; edible 2 = tough or fibrous Stem scar size: 1 = small () 2 = medium () 3 = large () No. of locules: 1 = two 2 = three and four 3 = five or more Fruit firmness1 (minimum table-ripe): 1 = extra-soft ('Gardener') 2 = very soft ('Valiant') 3 = soft ('Campbell 28') 4 = fairly firm ('Tropic') 5 = **firm ('MH-1')** 6 = very firm ('UC-82') PHENOLOGY (Growing degree days, or heat units on a base temperature of 51° F are 8. preferable--but you may report either growing degree days or calendar days. Circle either "days" for calendar days, or "heat units" for **growing** degree days): Days/heat units from seed to first open flower: days, Application variety days, Check variety No. 1 days, Check variety No. 2 Days/heat units from seed/trannspland (Indicate which) to first ripe fruit: 📕 days, Application variety 🚺 🚺 days, Check variety No. 1 ____ days, Check variety No. 2 1For definitions of these subjective terms see **Kader** & Morris (1976) In: Proc. 2nd Tomato Quality Workshop.

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	TOMATO-5
D) var	DISEASE AND PEST REACTION (Use code: 0-not tested, l-susceptible, 2-resistant) If claim of lty is baaed wholly or in part upon disease resistance , trial data should be appended (Exhibit nd should include date and location of trial(a), method of testing, reaction of application ety, and reaction of check varieties (identified by name) .
0	ucumber waaic O Curly top obacco waaic, Race 0 Image: Tobacco mosaic, Race 1 (Tm 1) Image: Tobacco waaic, Race 2 (Tm 22) Image: Tobacco waaic, Race 2 (Tm 22) obacco waaic, Race 22 (Tm 22) Image: Tomato spotted wilt Image: Tomato spotted wilt Image: Tomato spotted wilt ther (specify) Image: Tomato spotted wilt Image: Tomato spotted wilt Image: Tomato spotted wilt
000	erial Diseases: acterial canker (Corynebacterium michiganense) o Bacterial soft rot (Erwinia Caro tovora) acterial speck (Pseudomonas tomato) acterial wilt (Peeudownas Solanacearum) ther bacterial disease (specify)
	 al Diseases: arty blight (Alternaria solani) defoliation arty blight (Alternaria solani) defoliation usarium wilt, Race 2 (F.oxysporum f. lycopersici) at blight, Race 0 (Phytophthora infestans) eaf mold, Race 1 (Cladosporium fulvum) ailhead spot (Alternaria tomato) hizoctonia soil rot (R. solani) outhern blight (Sclerot: Lum rolfsii) erticillium wilt, pace 1 (V. albo-atrum) ther fungal diseases(specify)
	<pre>et and Pests: olorado potato beetle (Leptinotarsa decemlineata) oot knot nematode (Meloidogyne incognita) pider mites (Tetranychus spp.) ugar beet army worm (Spodopfora exigua) obacco flea beetle (Epitrix hirtipennis) omato hornworm (Manduca quinquemaculata) omato fruitworm (Heliothis sea) hitefly (Trialeurodea vaporariorum) ther (specify)</pre>
<u>Po</u>]	Utants: Ozone OSulfur dioxide Other (specify)
	REFERENCES nonymous,1976. All About Tomatoes. Ortho Books, Chevron Chemical Co., San Francisco. In three volumes: Midwest/Northeast Edition, West Edition, and South Edition. Mare, G. W. & J. P. McCollum, 1968. Producing Vegetable Crops. The Interstate Printer & Publishera, Inc., Danville, Illinois, (Chapter 30, pp. 451-473, "Tomatoes".) Mebb, R. E., T. H. Barksdale, & A. K. Stoner, 1973, "Tomatoes" pp. 344-361 In: Nelson, R.R. (Ed. Breeding Plants for Disease Resistance. Pennsylvania State University Press University Park Young, P. A. & J. W. MacArthur, 1947. Horticultural characters of tomatoes- Bull. Texas April:

13D. Exhibit D. Additional Description of 'Cherokee'

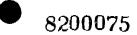
'Cherokee' has been similar to 'Flora-Dade' in total yield and yield of U.S. Combination Grade fruit. On <u>Verticillium-infested</u> soils, yields of 'Cherokee' have been almost double those of 'Walter' (Tables 1 and 2).

'Cherokee' has been similar to 'Flora-Dade' in percent of fruit in U.S. Combination and cull grades and has had higher percent U.S. Combination Grade and lower percent cull grade than 'Walter' (Tables 3 and 5).

'Cherokee' was similar to 'Flora-Dade' in 3 of 4 seasons for yield of fruit during the first 2 weeks of harvest. (Table 2).

Incidence of fruit cracking in mid and late season has been similar for 'Cherokee', 'Walter', and 'Flora-Dade' (Table 4).

Fruit size of 'Cherokee' has exceeded that of 'Flora-Dade' in all trials and has generally exceeded that of 'Walter' (Tables 5 and 6).



			County 1	ocation				
Buncor	nbe	Graham	Henderson	Mao	con	Madi	son	
1979	1980	1979	1979	1979	1980	1979	1980	
	26.6	11.4						
34.2	-	15.8	15.4	29.6	30.0	27.9	17.7	
33.7	49.9	17.9	18.9	26.1	28.4	29.7	16.2	
	1979 34.2	26.6 34.2 -	1979 1980 1979 26.6 11.4 34.2 - 15.8	Buncombe Graham Henderson 1979 1980 1979 1979 26.6 11.4 34.2 - 15.8 15.4	Buncombe Graham Henderson Mac 1979 1980 1979 1979 1979 26.6 11.4 34.2 - 15.8 15.4 29.6	Buncombe Graham Henderson Macon 1979 1980 1979 1979 1979 1980 26.6 11.4 34.2 - 15.8 15.4 29.6 30.0	Buncombe Graham Henderson Macon Madi 1979 1980 1979 1979 1979 1979 1979 26.6 11.4 34.2 - 15.8 15.4 29.6 30.0 27.9	

Table 1. Yield' (tons/acre) of tomato cultivars in grower trials in western North Carolina.

'Based on grower box counts from 1000-plant plots of each cultivar at each location.

'Soil infested with Verticillium dahliae.

Table 2.Yield (tons/acre) of U.S. Combination Grade (U.S. No. 1 + U.S. No. 2)
tomato fruit on Verticillium-infested soil. Fletcher, N.C.

	Early season ^Z					Total season			
Cultivar	1978	1979	1980	1981	1978	1979	1980	1981	
Walter	7.9	7.2	6.9	-	15.3	11.8	12.9	-	
Flora-Dade	7.3	6.2	8.5	5.8	22.5	21.0	23.2	16.5	
Cherokee	6.8	3.5	8.1	6.3	29.2	21.4	23.5	16.4	
LSD (.05)	1.4	2.8	1.9	1.8	5.8	3.8	3.0	4.5	

'First two weeks of harvest.

TOMATO - 4

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8. PHENOLOGY (Growing degree days, or heat units on a base temperature of 51° F are preferablebut you may report either growing degree days or calendar days. Circle either "days" or calendar days, or "heat units" for growing degree days) (Continued):
Days/heat units from seed/transplant (indicate which) to once-over harvest, if applicable: days, Application variety [] days, Check variety No. 1 days, Check variety No. 2
Days/heat UnitS from breaker to full-ripe stage: days, Application variety days, Check variety No. 1 days, Check variety No. 2
Shelf life of ripe fruit: days, Application variety days, Check variety No. 1 days, Check variety No. 2
2 Fruiting season: 1 = long ('Marglobe') 2 = medium ('Westover') 3 = short, concentrated ('VF 145') 4 = very concentrated ('UC 82') 3 = medium early 2 = medium early 3 = medium 4 = medium late 5 = late
 9. ADAPTATION (if more than one category applies, list all in rank order): Culture: 1 = field 1 = unstaked 2 = staked or trellised 2 = fresh market 3 = processing 4 = other 2 1 Machine harvest: 1 = not adapted 2 = adapted 2 Machine harvest: 1 = not adapted 2 = Southeast 3 = Midwest/Great Lakes 4 = South-central 5 = Great Plains 6 = Intermountain West 7 = Northwest 8 = Central California 9 = Southwest/So. Calififornia 10 = General 11 = Other (specify) 2 Growing season temperature: 1 = cool 2 = normal warm 3 = hot 4 = general 3 = general 10. RESISTANCE OR TOLERANCE TO ENVIRONMENTAL STRESS:
 10. NESISTANCE ON TOLERANCE TO ENVIRONMENTAL STRESS: 2 High temperature fruit set (subjective evaluation based on fruit set at temperatures that normally inhibit set in area of evaluation): 1 = poor 2 = fair 3 = good ('Summertime') AREA <u>western North Carolina</u> Low temperature fruit set (subjective evaluation based on fruit set at low temperatures that normally Inhibit germination): 1 = poor 2 = fair 3 = good ('Veecrop') AREA western North Carolina Low temperature seed germination: 1 = poor () 2 = fair () 3 = good ()
11. RESISTANCE TO FRUIT DISORDERS (Use code: 0-unknown, 1-susceptible, 2=resistant): 2 Blossom end rot 2 Catface 2 Cracking, Concentric 2 Gold fleck

8200075 TOMATO-2 4. **LEAF** (Mature leaf **under the** 1st to 3rd lnfloresceaces) (continued): . 1 Surface of major leaflets: 1 = smooth 2 = rugose (bumpy or veiny) . Leaflet: **1 = normal** 2 = slightly wilty 3 = wilty **Shape** of major leaflets: 1 - broadly ovate 2 - ovate to lanceolate 3 slender and lanceolate, tapered to a point Pubescence or hairiness: 1 = smooth 2 = normal 3 = wooly Color of leaflets: 1 = light green (**Earlinorth**) 2 = medium green (Walter) 3 = gray-green () 4 = dark green (UC82) 4 Color of leaf on check variety (same scale): Variety Flora-Dade 5. **INFLORESCENCE:** Type: 1 = simple (racemose) 2 = forked (2 major axes) 3 = compound (much branche No. of flowers setting fruit (in 2nd or 3rd inflorescence): 1 = 1-4, 2 = 4-8, 3 = 8-12, 4 🖛 12 or more FLOWER: 6. **Calyx:** 1 = normal (lobes awl-shaped) 2 = macrocalyx (lobes large, leaflike) 3 = fleshy Flower color: 1 = yellow 2 = old gold 3 = white or tan Style exsertion: 1 \blacksquare included 2 \blacksquare even with stamens 3 \blacksquare exserted Style pubescence: 1 = absent 2 = sparse 3 = dense Anthers: 1 = all fused Into tube 2 = separating into 2 or more groups at anthesis Fasciation (1st flower of 2nd or 3rd infloresence): 1 = absent 2 = occasionally present 3 = frequently present FRUIT (3rd fruit of 2nd or 3rd cluster): 7. Abscission layer: 1 = present (pedicellate) 2 = absent (jointless) mm. Length of pedicel (from abscission layer or joint to calyx attachment) Mature fruit: Maximum diameter: 1 = small cherry (<20 mm) 2 = large cherry (20-35 mm) 4 = U.S. extra small (48-54 **mm)**

 3 = cocktail (35-48 mm)
 4 = U.S. extra small (48-54 mm)

 5 = U.S. small (54-58 mm)
 6 = U.S. medium (58-64 mm)

 7 = U.S. large (64-73 mm)
 8 = U.S. extra large (73-88 mm)

 9 = U.S. maximum large (88-100 mm) 10 = U.S. maximum large (> 100 mm) 7 Maximum diameter of check variety, same classes as above (Specify name) <u>Flora-Dade</u> 2 1 9 g Fruit weight 188 g Check variety Flora-Dade Predominant fruit shape: (2) (3)(4)(1)(6) (5) (7) (8) (9)