

9900354

HHE UNIVERD SHAVES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS SHALL COME; Aarth Carolina Agriculutral Research Service Ar. R.C. Gardner (breeder)

DECEMP, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, 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 TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE SIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS AN SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, NDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN LING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY TION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TOMATO

'NC 2y'

In Vestimonn Mexicol I have hereunto set my hand and caused the seal of the Plant Bariety Brotection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of Tebruary, in the year of our Lord two thousand.

An novie IN

Commissioner Plant Variety Protection Office Agricultural Marketing Service San Wullner

(See reverse for instructions and information collection burden statement)

DATE

Randolph G. Gardner

Plant Breeder

Professor of Horticulture

CAPACITY OR TITLE

DATE

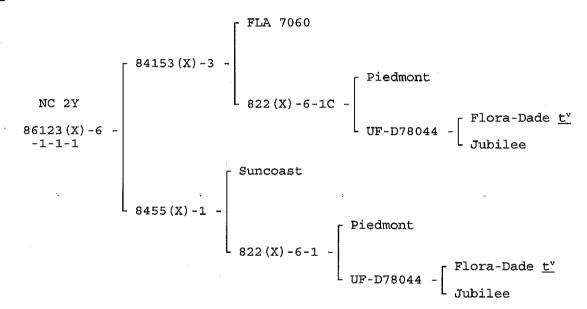
.: T-470 (6-98) designed by the Plant Variety Protection Office with Variety Protection Office with Variety Protection Office with Variety Posterior 6.03. Replaces STD-470 (03-96) which is obsoleto.

CAPACITY OR TITLE

Director, NC Agri Res Service

Tomato NC 2y

14A. Exhibit A. Pedigree:



NC 2y, an inbred line in the F_7 generation, was developed using the pedigree breeding system. The objective in the breeding program was to develop a large, deep globe-shaped gray wall resistant tomato line similar in fruit size and shape to the tomatoes FLA 7060 PVP and 'Suncoast' but having the tangerine gene (\underline{t}) for yellow-orange fruit color. It has pedigree in common with 'Mountain Gold' PVP with crosses made to FLA 7060 PVP and 'Suncoast' to obtain the large-fruited, deep globe trait. Single plant selections were made in the F_2 through F_5 generations for gray wall resistance in combination with the \underline{t} gene and large, deep globe shape characteristic of FLA 7060 PVP in field plots at Fletcher, NC. A bulk of the F_6 generation was harvested to produce the F_7 generation.

NC 2y appeared uniform and stable in the F_4 through F_7 generations in research station field and greenhouse trials and seed increase plantings. No variant or off-type plants were observed.

Exhibit B. Novelty statement

NC 2y is most similar to the tomato variety 'Mountain Gold' PVP. It differs from 'Mountain Gold' PVP in having a high level of resistance to gray wall (Table 1). 'Mountain Gold' PVP has shown moderate to severe gray wall symptoms in some trials, whereas NC 2y has not exhibited gray wall symptoms in any trials.

NC 2y also differs from 'Mountain Gold' PVP in having a large, deep globe shaped fruit characteristic of FLA 7060 PVP with fruit size significantly larger than 'Mountain Gold' PVP (Table 2).

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

9900354

XHIBIT C (Tomato)

OBJECTIVE DESCRIPTION OF VARIETY

NAME OF APPLICANT(S)	TOMATOTE	TEMPORARY DE		ARIETY NAME	
North Carolina Agric	ultural Research Service	NC 86123(X))-6-1-1		
Dr. R.G. Gardner (Bre	eeder)	-1-Bk		NC 2y	
ADDRESS (Street and No., or R.	F.D. No., City, State, and Zip Code)			FOR OFFICIAL U	ISE ONLY
North Carolina State	University		<u> </u>	VPO NUMBEŖ	
Box 7643 Raleigh, NC 27695-76	43	•			
	ng characters which best fit your variety	v. Complete this for	m as fully as poss	ible for best characterization	a of the variety.
zeroes when necessary (e.g., 0 variety of the same type (see list plants grown under normal conditional frials direct-seeded or transfer o	s requested (e.g., fruit weight), your an 9 or 0 8 1 , etc.). The a of recommended check varieties below; tions of culture for the variety. Indicates a consumer of the variety of the variety of the variety. Indicates are splanted at the consumer of the variety. Indicates are splanted at the consumer of the variety. Indicates are splanted at the consumer of the variety. Indicates are splanted at the consumer of the variety. Indicates are splanted at the consumer of the variety of the variety of the variety. Indicates are splanted at the variety of the variety of the variety of the variety of the variety. Indicates are splanted at the variety of the variety of the variety of the variety of the variety. Indicates are splanted at the variety of the variety of the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety. Indicates are splanted at the variety of the variety of the variety. Indicates are splanted at the variety of the variety	pplicant variety shou), and grown in the sa- te by a check whethe unstaked G /19,5/27/93;	ald be compared to trials. The cluster trial data are from two locations and 4/19,5/26/	with at least one well-known haracters on this form shoul om greenhouse or f dates of seeding and transples 4/18,5/27/95	n standard check Id be described from ieldplantings. lanting here:
COMPARISONS SHOULD BE M. OF THE CHECK IN BOXES WHO 1 = Ace 55 VF	ADE TO ONE OR MORE CHECK VAI ERE IDENTITY OF CHECK IS REQU 7 = Homestead 24	RIETIES IN THE FO	. • •	, <i>IF AT ALL POSSIBLE. E</i>	NTER THE NUMBER
2 = Campbell 37	8 = Marglobe	14 = Roma VF		20 = US 28	
3 = Chico III	9 = Murietta	15 = Rutgers		21 = VF 145	otoin Cold DVD
4 = Flora Dade 5 = Florida MH-1	10 = New Yorker 11 = Ohio MR-13	16 = Sunray 17 = Tropic		22 = Other (Specify) WOW	TOUTH GOLD IVE
6 = Heinz 1350	12 = Red Cherry Large	18 = UC 82			•
1. SEEDLING: 2 Anthocyanin in hyp 2. MATURE PLANT (at maximu	ocotyl of 2-15 cm, seedling: 1 = Abse	<u> </u>	1 2 1	3-4 week old seedling: 1 =	Normal 2 = Compact
2 Growth:	1 = Indeterminate 2 = Determ	inate 1 0	O Cm. Heigi		
2 Form:	1 = Lax, open 2 = Normal	3 = Compact	4 = Owarf	5 = Brachytic	•
Size of canopy (con	npared to others of similar type):	1 = Small	2 = Medium	3 = Large	
Habit:	1 = Sprawling (decumbent)	2 = Semi-erect	3 = Ere	ect ('Dwarf Champion')	
3. STEM:		· · · · · · · · · · · · · · · · · · ·			
2 Branching:	1 = Sparse ('Brehm's Solid Red', 'Fire	ball') 2 =	Intermediate ('W	estover') 3 = Profus	e ('UC 82')
Branching at cotyle	donary or first leafy node:	1 = Present	2 = Absent		
No. of nodes below	the first inflorescence: 1 = 1-4	2 = 4-7	3 = 7-10	4 = 10 or more .	
2 No. of nodes between	en early (1st - 2nd, 2nd - 3rd) infloresc	ences.	2 No. of r	iodes between later-develop	ing inflorescences.
3 Pubescence on your	ger stems: 1 = Smooth (no le 3 = Moderately ha		2 = Sparsely h 4 = Densely ha	airy (scattered long hairs) airy or wooly	
4. LEAF (mature leaf beneath the	3rd inflorescence):				
1 = To	mato 2 = Potato ('Trip-L-Crop')	2 Morphology (choose illustratio	n on pg. 5 of this form that	is most similar)
2 Margins of major lea	•	2 d or cut, esp. toward	•	thed or scalloped	
Marginal rolling or w	riltiness: 1 = Absent 2 = Sligh	ht 3 = Modera	te 4 = Stro	ong	#
Onset of leaflet rolling	ng: 1 = Early-season	. 2	: = Mid-season	3 = Late season	1

	•		#:					000035	1
4. L.	EAF T	 -	ture leaf beneath the 3rd Surface of major leaflets		tinued): Smooth	2 = Rucora /	bumpy or veiny)	3 30033	
	L	극					, ,		
	L	۷_	Pubescence: 1 = Smo	oth (no long hairs)	2 = Norma	3 = Hirs	sute 4	4 = Wooly	
5. 11	NFL	ORE	SCENCE (make observa	tions on 3rd infloresc	cence):	÷			•.
	L	1	Type: 1 =	Simple 2 =	Forked (2 major a	xes) 3 = Compou	nd (much branche	ed)	
L	<u> </u>	5	Number of flowers in in	florescence, average					
		2	Leafy or "running" infle	orescences: 1 =	Absent	2 = Occasional	3 = Frequent		
6. F	LOV	VER:	 						
		┙	Calyx: 1 =	Normal, lobes awi-sh	aped	2 = Macrocalyx, lobes large	e, leaflike	3 = Fleshy	-
		1	Calyx-lobes: 1 =	Shorter than corolla	2 = A	Approx. equalling corolla	3 = Distin	nctly longer than corolla	1
		1	Corolla color: 1 =	Yellow 2=	Old gold	3 = White or tan			
	Ī	2	Style pubescence:	1 = Absent	2 = Sparse	3 = Dense			
	Ī	〓		All fused into tube		eparating into 2 or more gro	uns at anthesis	ing the state of t	
-		=				Absent 2 = Occasion		3 = Frequently pre	
				·					
7. F	FRUI T	IT (3				r, match your variety with th			is form.
		4	Typical fruit shape:		Shape of transvers Shape of blossom	<u> </u>	2 Shape of s		
				2	Shape of biossom	end:	Shape of p	osui scar.	
	 [·						
	_ L		Abscission layer: 1	= Present (pedicellate) 2 = Absent (jo	intless) L Point of de	tachment of fruit	at harvest: 1 = At ped 2 = At caly	icel joint x attachment
	1 (<u> </u>	mm length of pedicel	(from joint to calyx a	ittachment)				
0	8 (mm length of mature	fruit (stem axis)	[) 6 1 mm length	, check var. no	<u> </u>	2 2
0	8 8	3	mm diameter of fruit	at widest point	[7 9 mm diamet	ter, check var. no		2 2
3	77 7	7	g weight of mature fru	it	7	g weight, c	heck var. no		22
<u> </u>					بَـا	: <u> </u>		<u></u>	<u>~ 1~ _ </u>
		3	No. of locules:	1 = Two	2 = Three and for	ur 3 = Five or mo	re	•	- :
		<u></u>	Fruit surface:	1 = Smooth	2 = Slightly rough	3 = Moderately	rough or ribbed		٠
-			(mature-green	. 1 = Light green ('La 3 = Apple or mediu		2 = Light gray-	green ('Westover'	}	
			stage):	5 = Dark green	m green ('Heinz 14	439 VF') 4 = Yellow gree	en		
	. []		Fruit pattern (mature-green stage):	•		439 VF') 4 = Yellow gred 2 = Green-shouldered		s = Radial stripes on side	es of fruit
	. [<u>]</u>		Fruit pattern	5 = Dark green 1 = Uniform green			3	l = Radial stripes on sid Yellow green	es of fruit
	. []		Fruit pattern (mature-green stage):	5 = Dark green 1 = Uniform green	· · · · · · · · · · · · · · · · · · ·	2 = Green-shouldered	3	·	es of fruit
			Fruit pattern (mature-green stage): Shoulder color if differ	5 = Dark green 1 = Uniform green rent from base: 1 = White 6 = Brownish	1 = Dark green 2 = Yellow	2 = Green-shouldered 2 = Grey green 3 = Orange	3≈`	Yellow green	
-	. [] [] []		Fruit pattern (mature-green stage): Shoulder color if differ Fruit color, full-ripe:	5 = Dark green 1 = Uniform green rent from base: 1 = White 6 = Brownish	1 = Dark green 2 = Yellow 7 = Greenish 2 = Pink	2 = Green-shouldered 2 = Grey green 3 = Orange 8 = Other (Specify)	3 = \ 4 = Pink	Yellow green 5 = Red	
		33	Fruit pattern (mature-green stage): Shoulder color if differ Fruit color, full-ripe: Flesh color, full-ripe:	5 = Dark green 1 = Uniform green rent from base: 1 = White 6 = Brownish 1 = Yellow 1 = Uniform	1 = Dark green 2 = Yellow 7 = Greenish 2 = Pink	2 = Green-shouldered 2 = Grey green 3 = Orange 8 = Other (Specify) 3 = Red/Crimson	3 = \ 4 = Pink	Yellow green 5 = Red	
			Fruit pattern (mature-green stage): Shoulder color if differ Fruit color, full-ripe: Flesh color, full-ripe:	5 = Dark green 1 = Uniform green rent from base: 1 = White 6 = Brownish 1 = Yellow 1 = Uniform	1 = Dark green 2 = Yellow 7 = Greenish 2 = Pink 2 = With lighter a 1 = Green	2 = Green-shouldered 2 = Grey green 3 = Orange 8 = Other (Specify) 3 = Red/Crimson and darker areas in walls	3 ~ \ 4 = Pink 4 = Orange	Yellow green 5 = Red	

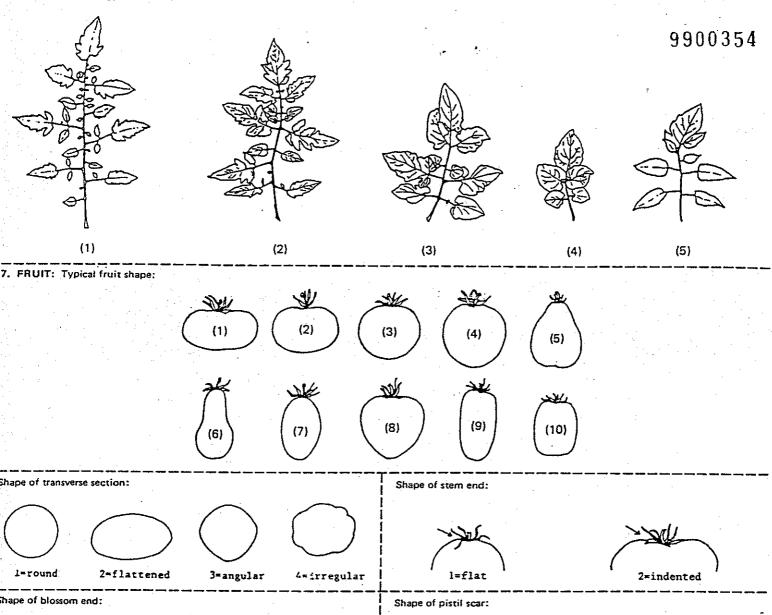
FORM LMGS-470-55 (2-82)

Page 2 of 5

7. FR	UIT (3rd 1	ruit of 2nd or	3rd cluster): Continued						9900354
2	Ripening	g:	1 = Inside out	2 = Uniformly	3 = Out	side in	2	Stem scar size:	1 = Smail ('Roma')
2	Epiderm	is color:	1 = Coloriess	2 = Yellow			I	2 = Medium ('Ru	tgers') 3 = Large
1	Epiderm	is:	1 = Normal	2 = Easy-peel	•	•	1	Core: 1 = Corel 6x6	ess (absent or smaller than mm) 2 = Present
2		is texture:	1 = Tender	2 = Average	3	= Tough			
3	Thicknes	ss of pericarp		3	Thic	kness of perical	rp, check	var. no. 2 2]
·0 · DE	CICT A NO	- TO FRUIT 1	1 = Under 3 mm	2 = 3-6 mm		= 6-9 mm		4 = Over 9 mm	
2			DISORDERS (Use code:	·	Susceptible,			2 7:	
2	Blossom Blotchy		2	ing, concentric	2	Fruit pox			pering
2	Bursting	ripening			2	Gold fleck		ii Oti	ner (Specify)
0 516	<u> </u>			ing, radial	• 🖵	Graywall			
part	upon dise	ase resistance,	trial data should be appe	nded. These should	specify the	esistant). NOT method of testi	E: If cla ing, the r	im of novelty is breaction of the app	ased wholly or in substantial lication variety, and
reac	tion of We		c varieties grown in the t	rial (identified by na	ame).				
		VIRAL DIS	SEASES:			·.			
		Cucumber m	osaic	O Tobac	cco mosaic, F	Race D	Toba	acco mosaic, Race	2 ²
		Curly top		O Tobac	cco mosaic, F	Race 1	Tom	ato spotted wilt	
-		Potato-Y viru	is	O Tobac	co mosaic, F	lace 2	Tom	ato yellows	
		Other virus (Specify)						· · · · · · · · · · · · · · · · · · ·
		BACTERIA	AL DISEASES:						
	0	Bacterial car	nker <i>(Corynebacterium n</i>	nichiganense)	O Bact	erial spot <i>(Xan</i>	thomone	as vesicatorium)	
		Bacterial sof	t rot (Erwinia carotovor	a)	0 Bact	erial wilt, (Pseu	udomona	as solanacearum)	
	0	Bacterial spe	ck (Pseudomonas tomat	0)	Othe	er bacterial dise	ease (Spe	ecify)	· .
		FUNGAL	DISEASES:			•			
	0	Anthracnose	(Colletotrichum spp.)		0 Leaf	mold, Race 1	(Cladosp	orium fulvum)	
	0		rot or corky root, ta lycopersici)		O Leaf	mold, Race 2			
			stem canker,		O Leaf	mold, Race 3			tion of the second of the seco
		(Alternaria s	•		Leaf	mold, other ra	ices (Spe	cify)	
	0	Early blight (Alternaria se	-	•		<u>.</u>	•		
	2	Fusarium wi	•		O Naiit	nead spot (Alte	rnaria to	mato)	
			m f. lycopersici)		O Sept	oria leafspot <i>(S</i> .	Liycopei	rsici)	
		Fusarium wil			O Targe	et leafspot <i>(Col</i>	rynespora	a casiicola)	
					1 Verti	cillium wilt, R	ace 1 (V	', albo-atrum)	
		Late blight, I	ot (Stemphylium spp.)		O Verti	cillium wilt, Ra	ace 2		
	0	(Phytophthol	The state of the s			r fungal disease	·		2
	0	Late blight, I	Race 1		Othe	r fungal disease	·		

St DISEASE AND PEST REACTION (Use code:	0 = Not tested, 1 = Suscept	tible, 2 = Resistant - Contin	ued) (9900354						
INSECTS AND PESTS:				3300334 .						
Colorado potato beetle (Leptinotarsa dece	mlineata) O Toma	to hornworm (Manduca qui	inquemaculata)							
Southern root knot nematode (Meloidogy)	ne incognita) 0 Toma	to fruitworm <i>(Ĥeliothis zea</i>	J							
O Spider mites (Tetranychus spp.) O Whitefly (Trialeurodes vaporariorum)										
O Sugar beet army worm (Spodoptera exigua) Other (Specify)										
O Tobacco flea beetle (Epitrix hirtipennis)										
POLLUTANTS:	· .									
Ozone Sulfur dioxi	de Other	(Specify)								
 CHEMISTRY AND COMPOSITION OF FU Canners Assn. Bull. 27-L. Please specify tes for at least one well-known check variety of 	t methods or give a referen	ce to methods used. Fill in	table below with values	for the new variety and						
	SUBMITTED	Check Variety	Check Variety	Check Variety						
	VARIETY	-								
рН	·									
Titratable acidity, as % citric										
Total solids (dry matter, seeds and skin removed)										
Soluble solids, as ^O Brix				·						
11. PHENOLOGY: Express length of developme are used, indicate the base te for method. Give comparation	mperature used in their calc	ulation here	OC. See paper by War	nock under "References"						
	APPLICATION VARIETY	Check variety Mountain Gold	Check variety Flora-Dade	Check variety						
Seeding to 50% flower (1 open flower on 50% of plants)	61 days	61	66							
Seed to once-over harvest (if applicable)										
Fruiting season: 1 = Long ('Marglobe') 2 = Medium ('Westover') 3 = Short, concentrated ('VF 145') 4 = Very concentrated ('UC 82')										
Relative maturity in areas tested: 1 = Early 2 = Medium early 3 = Medium 6 = Variable (if relative maturity is known to differ by location or environment, please explain on separate sheet).										
12. ADAPTATION: If more than one category a	oplies, list all in rank order.									
Culture: 1 = Fi	eld 2 = Gr	reenhouse								
/ I ~ I + I	ome garden 2 = Froncentrated products	esh market 3 = Wr 5 = Other (Specify)	nole-pack canning Parent in F ₁ hybi	rid						
Machine harvest: 1 = No	ot adapted 2 = Ad	dapted								
5 = G	ortheast 2 = Mi reat Plains 6 = So	uth-central 7 =	Southeast Intermountain West	4 = Florida 8 = Northwest						
	9 = California: Sacramento and Upper San Joaquin Valley 10 = California: Coastal areas 11 = California: Southern San Joaquin Valley & deserts									

4. LEAF: Morphology:



REFERENCES

2=stellate

3≈linear

Anonymous, 1976. All About Tomatoes. Ortho Books, Chevron Chemical Co., San Francisco. In three volumes: Midwest/Northeast Edition, West Edition, and South Edition

4=tapered

Ware, G.W. & J. P. McCollum, 1968. Producing Vegetable Crops. The Interstate Printer & Publishers, Inc., Danville, Illinois. Chapter 30, pp. 451-473, "Tomatoes".

Warnock, S.J. 1978. Using Tomato Heat Units. Leaflet No. 6, Campbell Institute for Agricultural Research, Camden, NJ. 10 p.

Webb, R.E., T. H. Barksdale, & A. K. Stoner, 1973, "Tomatoes", pp. 344-361, <u>In:</u> 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 Agric, Exper. Station No. 698.

3=nippled

ORM LMGS-470-55 (2-82)

I=indented

2=flat

4=irregular

Table. 1. Percent of Tomato Fruit Harvest Weight with Graywall. Fletcher, NC.ª

 	Early trial 8/23/94	Late Trial 9/27/94
Mountain Gold	26	25
Carolina Gold	0	0
NC 1y	. 0	0
NC 2y	0	0

1996 Early Trial

		Harvest Date		
	8/14	8/21	8/28	
	•	-11-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7		
Mountain Gold	23	25	25	
Carolina Gold	0	0	0	
NC 1y	0	0	0	
NC 2y	0	0	0	

1996 Late Trial

	Harvest Date					
	9/11	9/18	9/25	10/3	10/9	10/16
Mountain Gold	19	33	44	10	22	3
Carolina Gold	0	0	0	0	0	0
NC 1y	0	0	0	0	0	0
NC 2y	0	0	0	0	0	0

 $^{^{\}rm a}{\rm All}$ data obtained from two replicates of 8 plants per rep grown in randomized complete block designs with fruit harvested vine-ripe.

Table 2. Average Tomato Fruit Wt. (oz/fruit) in stake grown, vine-ripe harvest trials at Fletcher, NC.

		Year*								ъ
	1992E	1992L	1993E	1993ь	1994E	1994L	1995	1996E	1996L	$\overline{\mathbf{x}}$
Mountain Gold	11.2	10.1	10.0	10.3	11.9	11.6	11.2	12.6	11.6	11.3
Carolina Gold	11.0	10.4	12.0	10.3	13.3	11.7	12.3	13.1	12.2	12.1
NC 1y			10.4	10.0	11.4	11.1	9.7	11.8	11.0	10.8
NC 2y			14.5	11.6	14.4	13.8	12.0	14.0	13.1	13.3
LSD (0.05)	NS	ns	1.0	1.1	1.5	1.4	1.2	1.2	1.8	0.7
LSD (0.01)										0.9

 a Randomized complete block design with 2 replicates of 8 plants per rep for each trial. E = early season trial; L = late season trial.

bmeans for 1993-1996 trials.

REPRODUCE LOCALLY. Include form number and edition date on all reproductions.

FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Privecy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.					
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant veriety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).					
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME				
North Carolina Agricultural Research Service	9					
Dr. R.G. Gardner (Breeder)	86123(X)-6-1-1-1	NC 2y				
A. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)				
North Carolina State University	828-684-3562	828-684-8715				
Box 7643 Raleigh, NC 27695-7643	7. PVPO NUMBER	9900354				
8. Does the applicant own all rights to the variety? Mark an "X" in appropri	riate block. If no, please explain.	X YES NO				
Is the applicant (individual or company) a U.S. national or U.S. based or if no, give name of country	ompany?	X YES NO				
	(O If no, please answer one of the	following:				
b. If original rights to variety were owned by a company(ies), is(are) the	O If no, give name of country	y?				
11. Additional explanation on ownership (if needed, use reverse for extra some NC 2y was developed by Dr. R.G. Gardner, Probreeder with the NC Ag. Research Service, NF Fletcher, NC 28732-9244. Phone: (828) 684-email: rgardner@f	ofessor of Horticulture C State University, 20	L6 Fanning Bridge Road, 715				
en in the second of the second		•				
PLEASE NOTE:	H. H. all-	Vijena				
Plant variety protection can be afforded only to owners (not licensees) who meet o	ne of the following criteria:					
 If the rights to the variety are owned by the original breeder, that person must b which affords similar protection to nationals of the U.S. for the same genus and 	e a U.S. national, national of a UPOV mem species.	ber country, or national of a country				
If the rights to the variety are owned by the company which employed the origineember country, or owned by nationals of a country which affords similar protein.	nal breeder(s), the company must be U.S. b ection to nationals of the U.S. for the same	ased, owned by nationals of a UPOV genus and species.				
3. If the applicant is an owner who is not the original owner, both the original own	ner and the applicant must meet one of the a	bove criteria.				
The original breeder/owner may be the individual or company who directed final b	reeding. See Section 41(a)(2) of the Plant	Variety Protection Act for definition.				
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a column this information collection is 0621-0065. The time required to compete this information collections existing data sources, gettering and maintaining the data needed, and completing and The LLS. Department of Agriculture (USCA) prohibits discrimination in its programs on the basis of	lion is estimated to previous 10 marster per mespor reviewing the collection of information. of mon-color national orion, see: refolor, see, (652)	way, political beliefs, and market or familial status.				
 (Not all prohibited bases apply to all programs). Persons with deshibited who sequire attenuated USDA's TARGET Context 202-720-2500 (voice and TDD). To the a complete, write the Secretary of Agriculture, U.S. Department of Agriculture.) Méthik für communication of program attiontation (Digital in De buse, and busher, each system courses				