

DISEASE RESISTANT VEGETABLE CULTIVARS FOR HOME AND MARKET

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Vegetable cultivars listed in this publication correspond to those recommended in the Virginia Extension publications entitled "Vegetables Recommended for Virginia, MH 480" and "Commercial Vegetable Production Recommendations, 456-420". Seed produced by a commercial seed company is usually preferable to home-grown seed since infested seed may result in foliar and fruit diseases caused by fungi, bacteria, and viruses. In addition, commercially-produced seed is usually treated with seed protectant fungicides.

The information in this publication has been obtained from publications from other states, seed catalogues and research conducted in Virginia.

Definitions:

- S = susceptible
- M = moderately resistant to disease, economic losses occur but less than susceptible
- T = tolerant to disease and disease symptoms are present but economic losses are insignificant
- R = resistant to disease
- = susceptible or information not available

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no. 450-171 VEGETABLE/CULTIVAR  
VPI  
Spec

- 2 -  
DISEASE/PATHOGEN

	Rust	Fusarium Crown Rot
<u>Asparagus</u>		
Mary Washington	R	T
56 x 22-B	-	-

	Clubroot	Alternaria Leaf Spot	Downy Mildew	Black Rot
<u>Broccoli</u>				
Green Duke	S	S	S	S
Premium Crop	S	S	S	S
Green Valiant	S	S	S	S

	Downy Mildew	Root Knot	Bean Common Mosaic*
<u>Bean, Lima</u>			
Jackson Wonder	-	-	-
Fordhook 169	R	-	-
Fordhook 1072	R	-	-
Fordhook 242	-	-	-

\*Virus

	Bean Common Mosaic*	Bean Common Mosaic (NY15)*	Bean Yellow Mosaic*	Bean Pod Mottle*	Peanut Stunt*	Anthracnose	Rust	Powdery Mildew	Root** Rot
<u>Bean, Snap</u>									
Spurt	-	-	-	S	-	-	R	-	-
Contender	T	-	-	S	S	-	-	R	-
Dwarf Horticultural	-	-	-	S	-	-	-	-	-
Greencrop	-	-	-	S	S	-	-	-	-
Roma II	R	-	-	S	T	-	R	-	-

\*Virus

\*\*Pythium, Rhizoctonia, Fusarium

VEGETABLE/CULTIVAR

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Cabbage	Yellows	Clubroot	Black Rot	Downy Mildew
Gourmet	R	-	-	-
Moneymaker	T	-	-	-
Abbott & Cobb No. 5	T	-	T	-
Abbott & Cobb No. 5 Plus	R	-	T	-
Rio Verde	-	-	-	-
Blue Boy	R	-	T	-
Prime Pak	R	-	-	-
Little Rock	R	-	-	-
Market Prize	R	-	-	-

R = Resistant to some races

Cantaloupe (Muskmelon)	Alternaria Leaf Spot	Fusarium Wilt	Downy Mildew	Powdery Mildew	Anthrax- nose	Cucumber Mosaic*	Squash Mosaic*	Water- melon Mosaic 1*	Water- melon Mosaic 2*	Zucchini Yellow Mosaic*
Ambrosia	-	-	T	T	-	-	-	-	-	-
Gold Star	-	-	-	-	-	-	-	-	-	-
Superstar	S	T	S	-	-	-	-	-	-	-
Burpee Hybrid	S	S	S	S	-	S	S	-	-	S
Edisto 47	T	-	T	T	T	-	-	-	-	-
Saticoy	-	R	-	R	-	-	-	-	-	-
Summet	-	T	T	T	-	-	-	-	-	-

\*Virus

Cucumbers	Scab	Cucumber Mosaic*	Downy Mildew	Alternaria Leaf Spot	Powdery Mildew	Anthraxnose
Dasher II	R	R	R	R	R	R
Raider	R	R	-	-	-	-
Sprint	-	-	-	-	-	-
Poinsett 76	-	-	R	R	R	R
Pacer (Spring plantings only)	R	R	-	-	-	-
Marketmore 76	R	R	-	-	R	-

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	Powdery Mildew	Downy Mildew	Anthracnose
<u>Honeydew</u>			
Limelight	S	-	S
Venus	S	-	-

	Fusarium Wilt	Bean Yellow Mosaic*	Pea Mosaic*	Pea Enation Mosaic*	Downy Mildew	Heat Resistant
<u>Pea, Garden</u>						
Alaska	R	S	-	-	-	-
Freezonia	R	-	-	-	-	-
Greater Progress	R	-	-	-	-	-
Frosty	R	R	-	-	-	-
Wando	-	-	-	-	-	R
Green Arrow	T <sup>1</sup>	-	-	-	T	-
Progress No. 9	R <sup>1</sup>	R	-	-	-	-
Knight	-	R	-	R	-	-
*Virus						

	Tobacco Mosaic*	Tobacco Etch*	Potato Virus Y*	Fruit Rot	Root Knot**	Southern Blight
<u>Pepper</u>						
Bell Boy	R	-	-	-	-	-
Keystone Resist Giant No. 3	R	-	-	-	-	-
Hungarian Wax (hot)	-	-	-	-	-	-
Red Cayenne (hot)	-	-	-	-	-	-
Lady Bell (F1)	R	-	-	-	-	-
*Virus						
**Most peppers are resistant to root knot caused by <u>Meloidogyne javanica</u> , but are susceptible to <u>Meloidogyne incognita</u>						

	Late Blight	Wart	Scab	Leaf Roll	Yellow Dwarf*	Speckle Leaf*	Spindle Tuber*
<u>Potato, Irish</u>							
Superior (Eastern VA)	-	R	M	M	-	-	-
Pontiac	-	-	-	-	-	-	-
Kennebec (Western VA)	T	-	-	M	-	M	-
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<u>Pumpkin</u>	Black Rot	Powdery Mildew	Zucchini Yellow Mosaic*			
Howden	S	S	S			
Youngs' Beauty	S	S	S			
Spookie	S	S	S			
<b>*Virus</b>						
<u>Squash</u>	Downy Mildew	Powdery Mildew	Scab	Squash Mosaic*	Zucchini Yellow Mosaic*	Choanephora Wet-Rot
Goldbar (yellow)	-	S	-	S	-	S
Seneca Prolific (F1) (yellow)	-	-	-	-	-	S
Seneca Zucchini (F1)	-	-	-	-	-	-
Zucchini Elite (F1) (green)	-	-	-	-	-	-
Table Ace (fall)	-	S	-	S	S	-
Waltham Butternut (fall)	-	-	-	-	-	-
<b>*Virus</b>						
<u>Sweet Corn</u>	Stewart's Wilt	Rust	Smut	Maize Dwarf Mosaic*		
Sundance (early)	S	-	-	-		
Earlibelle (medium early)	T	R	-	R		
Bellringer (main)	T	-	R	T		
Silver Queen (white)	-	-	-	T		
Early Queen (white)	T	-	-	-		
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Tomato	Verticillium Wilt	Fusarium Wilt	Root Knot	Early Blight	Gray Leaf Spot	Tobacco Mosaic*	Bacterial Wilt	An-thracnose	Southern Blight
Jet Star VF	R	R <sup>1</sup>	-	-	-	-	-	-	-
Pik-Red	R	R <sup>1</sup>	R	-	-	-	-	-	-
Sunripe VFN	R	R	R	-	-	-	-	-	-
Better Boy VFN	R	R	R	R	R	-	-	-	-
Supersonic VF (F1)	R	R <sup>1</sup>	R	-	-	-	-	-	-
Floradade	R	R <sup>1</sup>	-	-	R	R	-	-	-
Mountain Pride	R	R	-	-	-	-	-	-	-

R<sup>1</sup> = Resistant to race 1 & 2

\*Virus

Watermelon	Anth-racnose	Fusarium Wilt	Alternaria	Powdery Mildew	Rind Necrosis	Water-melon <sup>1</sup> * Mosaic	Water-melon <sup>2</sup> * Mosaic	Zucchini Yellow Mosaic*
Dixielee	R <sup>1</sup>	-	-	-	-	-	-	-
Charleson Grey	R <sup>1</sup>	R	-	-	-	-	-	-
Petite Sweet	R <sup>1</sup> &R <sup>3</sup>	R	-	R	-	-	-	-
Sugar Bush	-	-	-	-	-	-	-	-
Sweet Favorite	R <sup>1</sup>	R <sup>1</sup>	-	-	-	-	-	-
Crimson Sweet	R <sup>1</sup>	R <sup>1</sup>	M	-	M	-	-	-
Top Yield	R <sup>1</sup>	R <sup>1</sup>	-	-	-	-	-	-
Jubilee	R <sup>1</sup>	R <sup>1</sup>	-	-	-	-	-	-
Prince Charles	-	R	-	-	-	-	-	-

R<sup>1</sup> = Resistant to race 1; R<sup>2</sup> = Resistant to race 2; R<sup>3</sup> = Resistant to race 3.

\*Virus