Recommended Varieties of Common Crops in the SE

Common Name	***Genus species***	Insect Pressures	Disease Pressures	Climate Pressures	**Recommended OP varieties - commercially available**	**Recommended OP varieties not yet commercially available**
Basil	*Ocimum basilicum*		Downy Mildew (DM), Fusarium (F)		Genovese (early), not a OP variety available w/resistance to DM and Fusarium - common late	
Bean, Common Bush	*Phaseolus vulgaris*	Mexican Bean Beetles	Rust, Mold, Common Mosaic Virus	heat and drought, prolonged wet periods	Lots: Provider (early), Blue Lake 274 (early), Maxibel (early), Strike (early), Labrador (early), Marona (early and late)	
Bean, Common Pole	*Phaseolus vulgaris*	Mexican Bean Beetles	Rust, Mold, Common Mosaic Virus	heat and drought, prolonged wet periods	Several: Dade, Selma Zesta	
Bean, Common Dry	*Phaseolus vulgaris*	Mexican Bean Beetles	Rust, Mold, Common Mosaic Virus	heat and drought, prolonged wet periods	Jamapa, Nayarit, (Black Turtle), Small Red, Rojo Chiquito, White Gaucho, Verdon, Kebarika	10001 Bean (similar to Ojo de Cabra)
Bean, Lima	*Phaseolus lunatus*		Rust, Mold, Common Mosaic Virus	heat and drought, prolonged wet periods	Jackson Wonder, Worchester Indian Red Pole, Violet's Multicolor Pole	
Cabbage	*Brassica oleracea*	Cabbage worms, Harlequin beetles	Fusarium Yellows, Black rot	heat and drought	Golden Acre (spring), Charleston Wakefield (fall), Winter King (late fall/early winter/all winter w/cover)	
Celery	*Apium graveolens*			heat, drought, cold	Tango, Living Webs Farm Ventura	
Cilantro	*Coriandrum sativum*			heat and drought	Caribe	
Collards	*Brassica oleracea*	Cabbage worms, Harlequin beetles	Fusarium Yellows, Black rot	heat and drought	Ole Timey Blue (lots coming out of The Collard Project that we haven't tried)	
Corn, Dent	*Zea mays*	Corn earworms (wrapper coverage)	Smut	heat and drought, high winds	TN Red Cob	Foncho, Chico Perez, San Andres Rojo, San Andres Black (Care of the Earth, available fall 2025)
Corn, Flint	*Zea mays*	Corn earworms (wrapper coverage)	Smut	heat and drought, high winds	Cateto	
Corn, Pop	*Zea mays*	Corn earworms (wrapper coverage)	Smut	heat and drought, high winds	Dynamite	Palomero (Care of the Earth, available fall 2025)
Corn, Sweet	*Zea mays*	Corn earworms (wrapper coverage)	Smut	heat and drought, high winds	Tramunt	FonchoxTramunt, Jay Bost, WNC-Adapted Luther Hill (Appalachian Growers Network), Utopian Seed Project-Jay Bost-Megan and Lalo Allen-Lazaro
Cucumber	*Cucumis sativus*	Cucumber beetles	Angular Leaf Spot, Bacterial Wilt, Downy Mildew	prolonged wet periods followed by dry	Ashley (early), Suyo Long (early), Costa (early and late), Natsu Fushinari (early and late), South Wind (early and late), Common Wealth Pickler (early and late)	Tu Pien (early and late), Adapted Mix - may be available through Going to Seed this spring
Eggplant	*Solanum melongena*	Flea beetles		heat and drought	FL Market, Pingtung, (Rosita)	
Kale	*Brassica spp.*	Cabbage worms, Harlequin beetles	Fusarium Yellows, Black rot	heat and drought	Meadowlark (spring and fall), Westlander (fall), Red Russian (baby and full-size), Mira Red-Stem	Mira White-Stem
Lettuce	*Lactuca sativa*	Lettuce aphids	Bottom rot	heat and drought	Lots: Pirat, May Queen, Akcel (early spring), Sierra (May-September/October), Bronze Arrow (cold weather)	
Melon	*Cucumis melo*	Cucumber beetle	Angular Leaf Spot, Bacterial Wilt, Downy Mildew	prolonged wet periods	Margie's Melon	Magdalena Melon, Commonwealth Seeds
Mustard Greens	*Brassica oleracea*	Flea beetles		heat and drought	Carolina Broadleaf	
Okra	*Abelmoschus escuelentum*	Stink bugs		heat, drought, and high humidity	Lots: Simpson, Perkins Long Pod, Clemson Spineless, Burmese	Ultracross Okra (Utopian Seed Project)
Onion	*Allium cepa*	Onion thrips, maggots	Center rot, Soft rot	heat, drought, high-humidity	Texas Grano	
Peas, African Field	*Vigna unguiculata*	root knot nematodes	mold (humidity)	some varieties struggle in high heat	Kiawah Purplehull, Whippoorwill, Creel Crowder Peas	Promiscuous Peas (Utopian Seed Project)
Pea, Green, Snap, Snow	*Pisum sativum*		Downy mildew	heat, drought, and humidity	Wando (green), PLS595 (green), Cascadia (Snap), Oregon Giant (snow)	

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Peanuts	*Arachis hypogea*			Clay soil, prolonged wet periods	TN Red Valencia	Boni's
Pepper, Hot	*Capsicum annuum*		Bacterial spot, Alternaria, Anthracnose	heat and drought , prolonged wet periods	Lots: Numex Joe Parker (Anaheim/Hatch), Veracruz (hot jalapeno), Stavros (Pepperoncini), Serrano Huasteco (Serrano), Balik, Carolina Hot Pepper (Cayenne)	Chile Gordo (medium jalapeno), Bastan Poblano F5 (Care of the Earth)
Pepper, Sweet	*Capsicum annuum*		Bacterial spot, Alternaria, Anthracnose	heat and drought , prolonged wet periods	Super Shepherd, Carolina Wonder, California Wonder, Jupiter, Peace Bell	
Pumpkin	*Cucurbita spp.*	Cucumber beetle, Vine borer	Plectosporium Blight, Downy Mildew, GBS	prolonged wet periods	Resilient Fire	Plectosporium-resistant *pepo* project (Care of the Earth)
Radish	*Raphanus sativus*	slugs	black rot	heat and drought	Cherry Belle, Watermelon	
Sorghum	*Sorghum bicolor*		Anthracnose, Downy Mildew	heat and drought, prolonged wet periods, wind	Lots: Mennonite (grain)	
Squash, Summer	*Cucurbita pepo*	Cucumber beetle	Plectosporium Blight, Downy Mildew, Pythium Fruit Rot	prolonged wet periods	Yellow Crookneck (early) - most resistance to Plectosporium of yellow summer squash and green zucchini, Tatume	Plectosporium-resistant *pepo* project (Care of the Earth): WC2122, Manteca, several other varieties from Mexico and Central America
Squash, Winter	*Cucurbita maxima*	Cucumber beetle, Vine borer	Downy Mildew, GBS	prolonged wet periods	North GA Candy Roaster	Candyroaster Project (Utopian Seed Project), Kabocha (Commonwealth Seeds)
Squash, Winter	*Cucurbita moschata*	Cucumber beetle	Downy Mildew, GBS	prolonged wet periods followed by dry	South Anna, Xiye, Mini-Paulista (can be eaten small as summer squash or allowed to mature for winter squash, milder, short storage)	Ofelia (Care of the Earth, available by email, release fall 2025); Edmund Frost (Commonwealth Seeds), Megan Allen (Care of the Earth), Jay Bost (Laughing Springs Farm)
Tomato, Modern Slicer	*Solanum lycopersicum*	root knot nematodes	Alternaria (EB), Septoria, Buckeye Rot, Late Blight, Fusarium Wilt, Verticillium Wilt,	prolonged wet periods	Red: Homestead 24, Mountaineer Pride; Pink: Bradley, Ozark Pink	
Tomato, Heirloom	*Solanum lycopersicum*	root knot nematodes	Alternaria (EB), Septoria, Buckeye Rot, Late Blight, Fusarium Wilt, Verticillium Wilt,	prolonged wet periods	German Johnson, T.C.Jones, Hillbilly Regular Leaf, Vinson Watts	
Tomato, Paste	*Solanum lycopersicum*	root knot nematodes	Alternaria (EB), Septoria, Buckeye Rot, Late Blight, Fusarium Wilt, Verticillium Wilt,	prolonged wet periods	Homestead 24, Connie's Roma VF, VA Select	
Tomato, Cherry	*Solanum lycopersicum*	root knot nematodes	Alternaria (EB), Septoria, Buckeye Rot, Late Blight, Fusarium Wilt, Verticillium Wilt,	prolonged wet periods	Matt's Wild, Easter in August, (Chadwick)	Orange Cherry (Wheatly's) (Care of the Earth)
Tomato, Currant	*Solanum pimpinelifolium*	root knot nematodes	Less susceptibility to Alternaria (EB), Septoria, Late Blight, Fusarium Wilt, Verticillium Wilt	prolonged wet periods		Citlalli
Turnip	*Brassica rapa*	slugs	Black rot	heat and drought	Kanamachi, Purple Top	
Watermelon	*Citrullus lanatus*		Alternaria, GSB, Downy Mildew, (Anthracnose, Fusarium)	prolonged wet periods	Crimson Sweet-VA Select, Congo	Yucatan, La Isla (Care of the Earth, available fall 2025)