

MINIMIZING DISEASES OF PEANUT IN THE SOUTHEASTERN UNITED STATES

University of Georgia

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ASSESS DISEASE RISK IN YOUR FIELD AND DEVELOP A PEANUT RX

This worksheet will lead you through the four-step process of determining your disease risk level in order to customize a Peanut Rx for your individual field using the reverse side of this worksheet and with the assistance of your Syngenta representative.

For each of the risk index factors, identify which option best describes the situation for your field and add the index value associated with each choice to obtain your overall disease risk value. This worksheet does not contain all of the varieties included in the 2019 Peanut Rx or the notes that accompany each factor. To view the complete 2019 Peanut Rx, visit the University of Georgia peanut website at www.ugapeanutteam.com.



Assess Your Disease Risk

Variety Selection				
Variety¹	Spotted Wilt Points	Leaf Spot Points	Soilborne Disease Point White Mold	
AU NPL 172	10	15	15	
Bailey ³	10	25	10	
Florida Fancy ²	25	20	20	
FloRun™ '331'2	15	20	1	5
Georgia-06G	10	20	20	
Georgia-07W	10	20	1	5
Georgia-09B ²	20	25	25	
Georgia-12Y ⁵	5	15	10	
Georgia-14N ^{2,4}	5	15	15	
Georgia-16HO ²	10	25	2	0
Georgia-18RU¹	10	25	2	0
Georgia Green	30	20	2	5
Sullivan ²	10	25	1	5
Tifquard ⁴	10	15	1	5
TifNV-HiOL ^{2,4}	5	15	15	
TUFRunner™ '297'2	10	25	20	
TUFRunner™ '511'2	20	30	1	
Planting Date	THE RESERVE OF THE PARTY.	Name and Address of the Owner, where	STREET, SQUARE, SQUARE,	CONTRACTOR OF STREET
Peanuts are planted:	Spotted Wilt Points	Leaf Spot Points	Soilborne Disease Poir White Mold Limb Ro	
Prior to May 1	30	0	10	0
May 1 to May 10	15	5	5	0
May 11 to May 25	5	10	0	0
May 26 to June 10	10	15	0	5
After June 10	15	15	0	5
Plant Population (final				-
riant ropulation (imai	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS	THE R. P. LEWIS CO., LANSING, S. L.		2.1.1
Plant stand:	Spotted Wilt Points	Leaf Spot Points	Soilborne Disease Poi White Mold Limb Ro	
Less than 3 plants/ft	25	NA	0	NA
3 to 4 plants/ft (3)	10 (15)	NA	0 (0)	NA
More than 4 plants/ft	5	NA	5	NA
At-plant Insecticide	Name and Address of the Owner, where	10.	AND RESIDENCE PROPERTY.	
Insecticide used	Spotted Wilt Points	Leaf Spot Points	Soilborne Disease Point White Mold Limb Rot	
None	15	5	NA	NA
Other than Thimet® 20G	15	5	NA	NA
Velum Total	15	0	NA	NA
Thimet 20G	5	0	NA	NA
Row Pattern				
	Spotted Wilt	Leaf Spot	Soilborne Di	sease Points
Peanuts are planted in:	Points	Points	White Mold	Limb Rot
Single rows	10	0	5	0
Twin rows	5	0	0	0
Tillage				
Tillage type	Spotted Wilt	Leaf Spot	Soilborne Disease Point White Mold Limb Rot	
3-71-	Points	Points	White Mold	Limb Rot
Conventional	Points 15	Points 10	White Mold	Limb Rot

Classic® Herbicide	Name and Address of the Owner, where the Owner, which the	SECTION S.	AND DESCRIPTION OF THE PERSON NAMED IN	No. of Concession,
Classic usage	Spotted Wilt	Leaf Spot	Soilborne Disease Poin	
	Points	Points	White Mold	Limb Rot
Classic applied	5	NA	NA	NA
No Classic applied	0	NA	NA	NA
Crop Rotation (with a n	on-legume cr	op)		
Years between	Spotted Wilt	Leaf Spot	Soilborne Disease Point	
peanut crop	Points	Points	White Mold	Limb Rot
0	NA	25	25	20
1	NA	15	20	15
2	NA	10	10	10
3 or more	NA	5	5	5
Field History	THE PERSON NAMED IN	A STREET	STATE OF THE PARTY OF	-
Have you had a problem	Spotted Wilt	Leaf Spot	Soilborne Disease Point	
controlling these diseases?	Points	Points	White Mold	Limb Rot
No	NA	0	0	0
Yes	NA	10	15	10
Irrigation	A STATE OF THE PARTY OF THE PAR	THE RESERVE	STATE OF THE PARTY.	COLUMN TO A
Does the field	Spotted Wilt	Leaf Spot	Soilborne Disease Points	
receive irrigation?	Points	Points	White Mold	Limb Rot
No	NA	0	0	0
Yes	NA	10	5	10

- Adequate research data is not available for all varieties with regards to all diseases. Additional varieties will be included as data to support the assignment of an index value are available. High oleic variety
- Bailey has increased resistance to Cylindrocladium black rot (CBR) compared to other varieties commonly planted in Georgia.
- Tifguard, TifNV-HiOL and Georgia 14-N have excellent resistance to the peanut root-knot nematode.
- Georgia-12Y appears to have increased risk to Rhizoctonia limb rot and precautions should be taken to protect against this disease

Develop Your Peanut Rx

Once you have calculated your total risk for each fungal disease, utilize the most conservative fungicide program as your quide for customizing a per-field prescription sprayprogram.

Programs developed through the cooperation of











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Calculate Your Severity Points

Fill in the following table to calculate your severity points for each of the four major peanut diseases given the 10 determining factors. Total each column to establish your disease index values.

	Spotted Wilt	Leaf Spot	White Mold	Rhizoctonia Limb Rot
Variety				
Planting Date				
Plant Population				
At-plant Insecticide				
Row Pattern				
Tillage				
Classic Herbicide				
Crop Rotation				
Field History				
Irrigation				
Total Index Value				

Interpret Your Risk Total

Point total range for tomato spotted wilt = 35-155. Point total range for leaf spot = 10-105.

Point total range for white mold = 10-95.

Point total range for Rhizoctonia limb rot = 15-75.

	Spotted Wilt Points	Leaf Spot Points	Soilborne Points		
			White Mold	Limb Rot	
High Risk	≥ 115	65-105	55-80	TBD	
High Risk for fun in a high-risk situ	gal diseases: Gro ation.	wers should alw	ays use full fungicio	le input program	
Moderate Risk	70-110	40-60	30-50	TBD	
standard fungicio	le programs. Red	uced fungicide p	pect better performa programs in research re not favorable for 10-25	n studies have	
fungal disease. C	Prowers have made the potential for	te the managem severe disease	ly to have the least lent decisions which these fields are stop equire a reduced nu	offer maximum	

When tomato spotted wilt virus incidence is high statewide or in your region, even fields with a low risk level may experience significant losses. Consider the following recommendations to reduce your spotted wilt risk level:

- · Use less susceptible varieties
- · Adjust your planting date
- · Consult the complete Peanut Rx for additional options that may also provide limited benefit