Rutgers Cooperative Extension

Compiled by B.A. Majek, W.L. Kline & S.T. Kline Prepared with support from Northeast Region SARE Program Project ENE95-7

PROCESSING PEA INTEGRATED WEED MANAGEMENT FIELD GUIDE

Year Prior to Planting Peas

If mechanical analysis for soil texture has never been done, sample now and submit to a laboratory for analysis.

-	The medianted analysis for son tentare has never done, sample now and sacrific to a most analysis.				
Procedure	How to Sample	Use of the Information	Additional Notes		
Analysis of Soil	Using a county soil map, identify the different	With this information an integrated weed	Mechanical analysis generally only needs		
Texture, Organic	soils in the field. Take a sample from each	management program can be designed using	to be done once unless there is significant		
Matter and pH	area where soil types differ. Submit to lab for	cultural and/or chemical controls for each soil	erosion or changes in cropping patterns.		
	analysis of texture by mechanical analysis and	type in a field. Soil type and pH differences	CEC and pH should be analyzed annually.		
	for analysis of Cation Exchange Capacity	within a field affect rate of application,	Organic matter analysis should be done		
	(CEC), organic matter (OM), and pH.	carryover and other interactions.	every 5 – 1- years.		

Pre-harvest of Prior Year's Crop

Scout once before the crop is harvested to learn the potential weed problems for the pea crop the following year.

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Weed	How to Sample	Threshold	Notes			
Horsenettle, Ground Cherry, Yellow	Scout field in a zigzag pattern. Sample	Presence	Select control measures to eradicate these			
Nutsedge, Canada Thistle, Common	10 random locations 1 square yard in		perennials for the next cropping season. See			
Milkweed, Hemp Dogbane, Bindweed	size or 10 ft. of row, whichever pattern		"Postharvest Perennial Weed Control" for			
spp., Johnsongrass, Bermudagrass	best suits existing conditions. Map the		treatment options. (292) Plant fall cover crop.			
(277, 1326)*	location of these weeds.					
Summer Annuals, Black Nightshade,	Scout as outlined above for the presence	Number of weeds per 10 ft. of	Untreated check provides the most reliable			
Hairy Nightshade, Common	of these weeds. Potential weed	row or 1 sq. yd.	information for planning the weed control			
cocklebur, Jimsonweed	problems are best identified by a non	< 1 weed = very light	strategy for the coming season. Plant fall			
	treated weedy check. Identify the	1-4 weeds = light	cover crop to control winter annuals.			
	weeds, count # of each species. Note	4-10 weeds = medium				
	whether specific weeds are scattered	10-100 weeds = heavy				
	throughout the field or predominate in	> 100 weeds = very heavy				
(277, 1326)	one area of the field.					

Production Year

Pre-planting Decisions

- 1. From the information obtained from the prior year's scouting, select recommended control options for those weeds.
- 2. Use the map locating perennial weeds to determine if fall treatment eliminated those weeds.
- 3. Match preplant incorporated and preemergence herbicide rates to soil type and percent organic matter in each field.

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Peas 2-4 Inches Tall

Weed	How to Sample	When	Threshold
Zero Tolerance Weeds =	In a zigzag pattern, scout 1	Scout once when	# weeds/10 ft. row or a sq. yd. Action
Nightshades, Horsenettle, Yellow	sq. yd in 5 random locations	peas are 2 to 4 inches	Zero Tolerance Weeds Presence Control Required
Nutsedge, Morning Glory,	and 10 ft. of row in another	tall.	Summer Annuals <0.25 weed None
Jimsonweed, Common Cocklebur,	5 random locations. Identify		" 0.25 – 1 weed Control may be required
Canada Thistle, Common Milkweed,	species, count # of each		" > 1 weed Control required
Hemp Dogbane, Bindweed spp.,	weed species. Map location		Canada Thistle: The flower bud presents a contamination problem in
Johnsongrass, Bermudagrass,	of zero tolerance weeds.		the processed product.
Quackgrass	Determine whether weeds		Nightshades: The berry is poisonous and presents a contamination
Winter Annuals	are predominantly within		problem in the processed product. Neither can be separated from
Summer Annuals (277, 1326)	the row or between rows.		peas by mechanical separation.
Weeds listed above	Scout in same manner	Scout 2 weeks after	This scouting is to determine how effectively the treatment controlled
		controls have been	the weeds. Further treatment dependent upon results. See thresholds
		instituted.	above.

For Early Planted Peas

Weed	How to Sample	When	Threshold	
Zero Tolerance Weeds =	In a zigzag pattern, scout 1	Approximately 4	# weeds/10 ft. row or a sq. yd. Action	
Nightshades, Horsenettle, Yellow	sq. yd. in 5 random	weeks after planting,	Zero Tolerance Weeds Presence Control Required	
Nutsedge, Morning Glory,	locations and 10 ft. of row	a second scouting can	Summer Annuals <0.25 weed None	
Jimsonweed, Common Cocklebur,	in another 5 random	be carried out on	" 0.25 – 1 weed Control may be required	
Canada Thistle, Common Milkweed,	locations. Identify species,	early planted peas if	" > 1 weed Control required	
Hemp Dogbane, Bindweed spp.,	count # of each weed	the recheck scouting	Canada Thistle: The flower bud presents a contamination problem in	
Johnsongrass, Bermudagrass,	species. Map location of	above has not been	the processed product.	
Quackgrass	zero tolerance weeds.	carried out.	Nightshades: The berry is poisonous and presents a contamination	
Winter Annuals	Determine whether weeds		problem in the processed product. Neither can be separated from	
Summer Annuals	are predominantly within		peas by mechanical separation.	
(277, 1326)	the row or between rows.			

^{*}Bolded numbers in parenthesis indicate sources of additional information found in the Mid-Atlantic IPM Database by this special reference number.

Scouting procedures, thresholds, and crop management recommendations have been compiled from a number of sources and may not be valid for all areas within the Mid-Atlantic Region. They are meant to be used as guidelines. As such, they should be validated on small acreages before relying on them. No guarantee of their validity, success, or failure to perform in the field is implied or expressed. Consult your local Cooperative Extension Agent for additional information or assistance.