Arizona Lettuce Insect, Disease and Weed Losses Survey - 2013 / 2014

Part 1.

1. Please indicate: PCA _____ Industry _____ Other_____.
2. Reporting Area (county or counties) : _____.
3. Date submitted: (dd/mm/yy): _____.

	Fall Lettuce *(Sep - Nov)*	Spring Lettuce *(Dec-Mar)*
4. How many Lettuce acres did you watch this year (total acres)		
5. Percent reduction in yield by: Weather (% reduction)		
6. Percent reduction in yield by: Chemical injury (% reduction)		
7. Percent reduction in yield by: Weeds (% reduction)		
8. Percent reduction in yield by: Disease (% reduction)		
10. Percent reduction in yield by: Birds (% reduction)		
11. Percent reduction in yield by: Other Factors (% reduction), please list below		

Insecticide Application Costs: It is possible that acreage could have been treated using both air and ground sprayer, thus, when combined, percentages may total > 100%. These estimates are for ***Insecticide Applications only***.	Fall Lettuce *(Sep - Nov)*	Spring Lettuce *(Dec-Mar)*
Aerial Applications		
12. Avg. % acres treated by **AIR**		
13. Avg no. of treatments by **AIR**:		
14. Avg. cost ($) per acre for a single **AIR** application:		
Ground Applications		
15. Avg % acres treated by **GROUND**		
16. Avg no. of treatments by **GROUND**:		
17. Avg. cost ($) per acre for a single **GROUND** application:		

Insect Management Fees: Estimate the cost ($) of insect management fees paid by growers to pest control advisors.	Fall Lettuce *(Sep - Nov)*	Spring Lettuce *(Dec-Mar)*
18. **% acres** where insect monitoring, scouting and sampling was conducted:		
19. Avg no.of field visits per week:		
20. Estimated **cost** ($) per acre charged to grower for **monitoring/advisory**:		

Comments:

Please return this survey form to:

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Email: jpalumbo@ag.arizona.edu

Fall Lettuce (Sep-Nov)

Part 2.

Arizona Lettuce Insect Losses Survey - 2013 / 2014

	Pest	% Acres pest was present	% Acres treated for pest	No. of Foliar sprays applied	Avg cost $ of a single foliar spray	% Reduction in yield
21	**Seedling Pests** -ants, earwigs, crickets, darkling beetles, etc.					
22	**Flea beetles**					
23	**Leafminers**					
24	**Salt marsh caterpillar**					
25	**Beet armyworm**					
26	**Cabbage looper**					
27	**Corn earworm**					
28	**Silverleaf whitefly**					
29	**Green peach aphid**					
30	**Foxglove aphid**					
31	**Lettuce aphid**					
32	**Thrips**					
33	**Lygus / False Chinch Bug**					
34	**Three-corned Alfafa Hopper**					
35	**Grasshoppers**					
36	**Trash bugs**					
37	**Other _____.**					

		% acres treated	No. of applications	Cost $ per acre
38	**Sprinkler chemigation treatments applied at stand establishment .**			
39	**Soil-applied insecticide used (Admire, generic imidacloprid, Platinum, Venom, Scorpion:**			
40	**Soil-applied insecticide used (Coragen or Durivo):**			

Spring Lettuce (Dec-Mar)

Part 2.

Arizona Lettuce Insect Losses Survey - 2012 / 2013

	Pest	% Acres pest was present	% Acres treated for pest	No. of Foliar sprays applied	Avg cost $ of a single foliar spray	% Reduction in yield
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37	**Other** _____					

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40	**Soil-applied insecticide used (Coragen or Durivo):**			

Arizona Lettuce Insect Losses Survey - 2013 / 2014

Part 3.

Insecticide	Fall Lettuce (September -November)	
	Acres (%) treated with this product	Avg no. of applications
Orthene (acephate)		
Dimethoate		
MSR		
Diazinon		
Malathion		
Lannate		
Larvin		
Pyrethroids - Foliar		
Pyrethroids - Chemigation		
Imidacloprid (Admire Pro)		
Imidacloprid (Generics- e.g., Alias)		
Venom / Scorpion (soil)		
Venom / Scorpion (foliar)		
Assail		
Belay		
Actara		
Endigo		
Closer		
Oberon		
Movento		
Fulfill		
Beleaf		
Torac		
Avaunt		
Intrepid		
Proclaim		
Success /Entrust		
Radiant		
Coragen (Foliar)		
Coragen (Soil)		
Durivo		
Voliam Xpress		
Voliam Flexi		
Belt		
Vetica		
Agrimek (ABBA)		
Azadirachtin/Neem products		
Bt (Dipel/Javelin/Xentari)		
Other _____		

Arizona Lettuce Insect Losses Survey - 2013 / 2014

Part 3.

Insecticide	Spring Lettuce (December-March)	
	Acres (%) treated with this product	Avg no. of applications
Orthene (acephate)		
Dimethoate		
MSR		
Diazinon		
Malathion		
Lannate		
Larvin		
Pyrethroids - Foliar		
Pyrethroids - Chemigation		
Imidacloprid (Admire Pro)		
Imidacloprid (Generics- e.g., Alias)		
Venom / Scorpion (soil)		
Venom / Scorpion (foliar)		
Assail		
Belay		
Actara		
Endigo		
Closer		
Oberon		
Movento		
Fulfill		
Beleaf		
Torac		
Avaunt		
Intrepid		
Proclaim		
Success /Entrust		
Radiant		
Coragen (Foliar)		
Coragen (Soil)		
Durivo		
Voliam Xpress		
Voliam Flexi		
Belt		
Vetica		
Agrimek (ABBA)		
Azadirachtin/Neem products		
Bt (Dipel/Javelin/Xentari)		
Other _____		

Arizona Lettuce Insect Losses Survey - 2013 / 2014

Part 4.

	Pathogen	A		B		C		D		E	
		% Acres where disease was present		% Acres treated for this disease		No. of fungicide applications required to control this disease		Cost $ of a single application per / acre (include application cost)		% Reduction in yield due to this disease	
		Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
40	Bottom rot (Rhizoctonia)										
41	Damping off										
42	Downy mildew										
43	Fusarium wilt										
44	Gray mold (Botrytis)										
45	Powdery mildew										
46	Sclerotinia drop (minor)										
47	Sclerotinia drop (sclerotiorum)										
48	Bacterial diseases										
49	Nematodes (type?)										
50	Lettuce big vein										
51	Other virus diseases										

Part 5. **Arizona Lettuce Insect Losses Survey - 2013 / 2014**

Fungicide	Fall Lettuce (September -November)		Spring Lettuce (December-March)	
	Acres (%) treated with this product	Avg no.of times treated with product	Acres (%) treated with this product	Avg no.of times treated with product
Actigard				
Aliette				
Other phosphite fungicides				
Botran				
Cannonball				
Cabrio				
Copper based fungicides				
Contans				
Curzate				
Dithane (Manzate)				
Endura				
Flint				
Forum				
Fontelis				
Merivon				
Potassium bicarbonate				
Presidio				
Previcur Flex				
Quadris				
Quintec				
Rally				
Reason				
Revus				
Ridomil Gold				
Rovral (Iprodione)				
Serenade				
Sonata				
Sulfur, dusting				
Sulfur, wettable				
Switch				
Taegro				
Tanos				
Zampro				
Other _____				

Part 6. **Arizona Lettuce Insect Losses Survey - 2013 / 2014**

Herbicide	Acres treated (%)	Application method (% applied)			Estimated cost ($/ac) including application		
		Ground	Air	Chemigation	Ground	Air	Chemigation
Kerb (Head Lettuce only)							
Prefar							
Balan							
Select (and generics)							
Select Max							
Prism, Arrow, Intensity							
Poast (Vantage, Segment)							

Non-chemical control	Acres treated (%)	Application method (% applied)			Estimated cost ($/ac) including application		
		Ground	Air	Chemigation	Ground	Air	Chemigation
Cultivation							
Hand Hoeing							

Part 7. Arizona Lettuce Insect Losses Survey - 2013 / 2014

Weed	% Infested acres
Common Purslane	
Pigweed	
Groundcherry	
Spurge	
Sunflower	
Clover	
Malva	
Morninglory	
Knotweed	
Marstail	
Russian Thistle	
London Rocket	
Sphepardspurse	
Sowthistle	
Nettleleaf Goosefoot	
Lambsquarters	
Sahara Mustard	
Nutsedge	
Annual Bluegrass	
Cannarygrass	
Wild Oat	
Volunteer Grain	
Barnyard Grass	
Junglerice	
Cupgrass	
Sprangletop	
Feather Fingergrass	
Sandbur	
Foxtail	
Rabbitsfoot Grass	
Other	