2015 Cotton insect losses questionnaire. Note: Questions on pages 1–2 are designed to orient the estimator to an overview prior to answering the pest questions on page 3a & b. Use separate columns for Non-Bt cotton & Bt cotton, or Pima cotton & Bt cotton, where applicable.	Response for: Non-Bt Cotton	Bt Cotton
1. Your Name (this information will never be shared with anyone; ID purposes only)		
2. Reporting Area (County or Counties; e.g., Pinal Co.) - indicate %'s if you check in multiple counties		
2a. Subarea (farm or farms, or portion of County, etc.; West Pinal Co. or Stanfield or farm name)		
3. Date submitted (dd/mm/yy)		
4. Cotton Acreage to which this estimate applies. [**Strike out "non-Bt" if you are responding for Pima cotton**]		
5. Yield in pounds per acre for this acreage.		
6. Potential yield in pounds per acre for this acreage. Assume ideal conditions.		
7. Percent reduction in yield by WEATHER: % reduction:		
8. Percent reduction in yield by CHEMICAL INJURY: %reduction:		
9. Percent reduction in yield by All INSECTS combined: % reduction:		
9b. Percent reduction in yield by All WEEDS combined: % reduction:		
9c. Percent reduction in yield by All DISEASES combined: % reduction:		
9d. Percent reduction in yield by NEMATODES: % reduction:		
10. Percent reduction in yield by OTHER PESTS: % reduction: (Insert your list of other pests here, in margins or back of this document) _____		
11. Percent reduction in yield by OTHER FACTORS: % reduction: (Insert your list of other factors here, in margins or back of this document) _____		
16. Number of acres planted with **treated seed** for insect control.		
17. Cost of seed treatment per acre		
16b. Number of acres receiving planting time **in furrow** sprays for early season insects.		
17b. Cost of ` in furrow sprays' /acre: 'in furrow'		
17c. Number of acres treated with a residual herbicide (**as pre- or at planting**):		
18. Number of acres planted to transgenic Bt cotton **that is not stacked with a herbicide tolerant trait:**		
19. Cost of just the Bt trait per acre of Bt cotton (leave blank if you don't know):		
25b) What percentage of foliar applications for ALL COTTONS are reported to the state on form L-1080?	***Before Lay-by***	***After Lay-by***
A) Insecticides / miticides?		
B) Herbicides?		
C) Fungicides?		
D) Nematicides?		

*Technologies =>	Bollgard II	BGII/Flex	BGII/LL	BGII/Glytol	Widestrike	W/Flex	Widestrike3	TL/HT	TL Plus/HT	HT Only	Organic	Non-transgenic*
Acres planted to:												

LL=LibertyLink; W=Widestrike; TL=TwinLink; HT=Herbicide tolerant; Should total 100% of your acreage; Non-transgenic=conventional cotton.

Applications: Acreage treated by air or ground should not exceed more than 100% each (but when combined may total up to 200%). These questions pertain to FOLIAR INSECTICIDE applications only.	**Response for:**	
	Non-Bt Cotton	**Bt Cotton**
20. Percent acres (for this estimate) treated by air this year:		
21. Cost per acre for aerial applications:		
22. Average number of treatments by air:		
23. Percent acres (for this estimate) treated by ground this year:		
24. Cost per acre for ground applications:		
25. Average number of treatments by ground:		
Pest Management Fees: Estimate the cost of pest management fees paid by farmers to advisory personnel: crop consultants, fieldmen and/or advisors.		
26. Number of acres for which there was a pest monitor, consultant, or crop advisor this year. Confine your estimate to pest management (exclude agronomic, water use and other crop management advice).		
27. Number of field visits per week:		
28. Estimated cost per acre for pest management advisory by scouted acre:		

Pest Questions: Please answer each of the questions on the next pages for your reporting area. Take notice that acres planted, acres infested, and acres treated may be different. Infested acres are those on which insects were reported. Estimates on number of applications should be based on treated acres. Percent yield reduction should include infested acres (whether treated or not). Estimates will be converted to a weighted average for the entire planted acreage. Always keep in mind the acreage for which you are making the estimate, but realize that it will be combined with other areas in your state and finally in the nation to make a national estimate. A working example is given in the Powerpoint handout; please review it before answering the questions on next page.

See Example Sheet & Instructions

Cotton Insect Losses

Please enter a number (could be zero) in every cell under infested acres (a), treated acres (b), and percent reduction (e).	(a) Number* of acres infested by this pest:		(b) Number* of acres treated for this pest:		(c) No. of insecticide applications required to control this pest:		(d) Cost of 1 application / acre (include application cost):		(e) Percent reduction in yield due to this pest:	
Type of Cotton ==>	*Non-Bt*	*Bt*	*Non-Bt*	*Bt*	*Non-Bt*	*Bt*	*Non-Bt*	*Bt*	*Non-Bt*	*Bt*
Aphids										
Bagrada bug										
Brown Stink Bug										
Other Stink bugs										
Bandedwing whitefly										
Beet armyworm										
Boll weevil										
Bollworm/budworm										
Cabbage loopers										
Cotton fleahopper										
Cotton leafperforator										
Cutworms										
Darkling Beetles										
Fall armyworm										
Grasshoppers										
Lygus bug										
Pale-Striped Flea Beetle										
Pink bollworm										
Salt-marsh caterpillar										
Silverleaf (Sweetpotato) whitefly										
Spider mites										
Thrips/Western flower thrips										
Other (specify)										
Acreage never sprayed foliarly for insects										

**Number of acres or percentages are both acceptable, but please be consistent.*

Historically, how have you used the following insecticides?*

**One brand name is provided as an example only; in some cases, there are many products containing the same active ingredient.*

Insecticide/Miticide	Check one: Never	Rarely (not every year)	Often (every year)	"Go to" Product	Primary Target Pests
acephate (Orthene)	○	○	○	○	_____
acetamiprid (Intruder)	○	○	○	○	_____
avermectin (Zephyr)	○	○	○	○	_____
bifenazate (Acramite)	○	○	○	○	_____
bifenthrin (Brigade/Capture)	○	○	○	○	_____
buprofezin (Courier)	○	○	○	○	_____
chlorpyrifos (Lorsban)	○	○	○	○	_____
clothianidin (Belay)	○	○	○	○	_____
cyfluthrin (Baythroid)	○	○	○	○	_____
dicrotophos (Bidrin)	○	○	○	○	_____
dicofol (Kelthane)	○	○	○	○	_____
diflubenzuron (Dimilin)	○	○	○	○	_____
dimethoate	○	○	○	○	_____
dinotefuran (Venom)	○	○	○	○	_____
emamectin benzoate (Denim)	○	○	○	○	_____
esfenvalerate (Asana)	○	○	○	○	_____
etoxazole (Zeal)	○	○	○	○	_____
fenpropathrin (Danitol)	○	○	○	○	_____
fenpyroximate (Fujimite)	○	○	○	○	_____
flonicamid (Carbine)	○	○	○	○	_____
imidacloprid (Provado)	○	○	○	○	_____
indoxacarb (Steward)	○	○	○	○	_____
lambda-cyhalothrin (Warrior)	○	○	○	○	_____
methomyl (Lannate)	○	○	○	○	_____
oxamyl (Vydate C-LV)	○	○	○	○	_____
profenofos (Curacron)	○	○	○	○	_____
propargite (Comite)	○	○	○	○	_____
pyriproxyfen (Knack)	○	○	○	○	_____
spiromesifen (Oberon)	○	○	○	○	_____
sulfoxaflor (Transform)	○	○	○	○	_____
sulfur	○	○	○	○	_____
thiamethoxam (Centric)	○	○	○	○	_____
zeta-cypermethrin (Mustang)	○	○	○	○	_____
Other _____	○	○	○	○	_____

For this year, indicate your insecticide usage in % acres treated, no. of sprays and target pest(s) for each product & each cotton technology

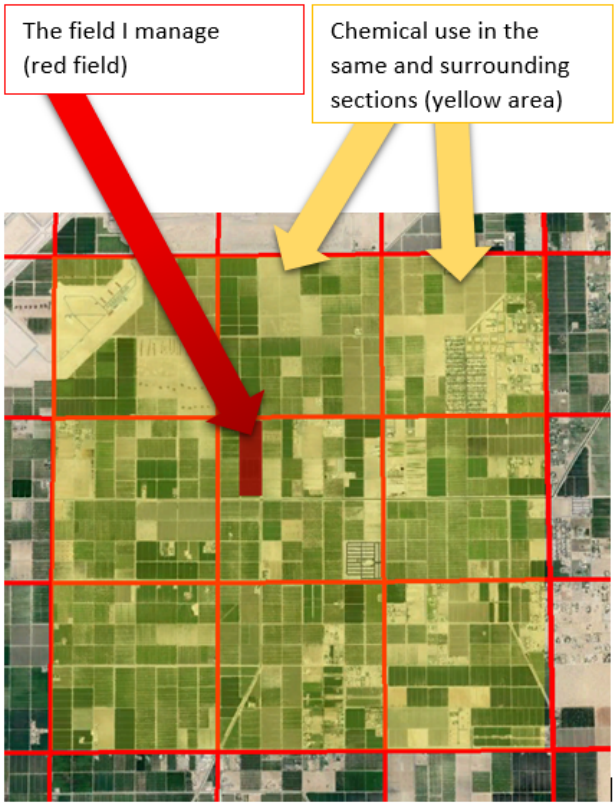
**One brand name is provided as an example only; in some cases, there are many products containing the same active ingredient.*

Insecticide/Miticide	Target Pest(s)	%Acres Treated		No. of Sprays		% Reported to ADA on 1080
		Non-BT	BT	Non-BT	BT	
acephate (Orthene) ·····	_____					
acetamiprid (Intruder) ·····	_____					
avermectin (Zephyr) ·····	_____					
bifenazate (Acramite) ·····	_____					
bifenthrin (Brigade/Capture) ·	_____					
buprofezin (Courier) ·····	_____					
chlorpyrifos (Lorsban) ·····	_____					
clothianidin (Belay) ·····	_____					
cyfluthrin (Baythroid) ·····	_____					
dicrotophos (Bidrin) ·····	_____					
dicofol (Kelthane) ·····	_____					
diflubenzuron (Dimilin) ·····	_____					
dimethoate ·····	_____					
dinotefuran (Venom) ·····	_____					
emamectin benzoate (Denim)	_____					
esfenvalerate (Asana) ·····	_____					
etoxazole (Zeal) ·····	_____					
fenpropathrin (Danitol) ·····	_____					
fenpyroximate (Fujimite) ·····	_____					
flonicamid (Carbine) ·····	_____					
imidacloprid (Provado) ·····	_____					
indoxacarb (Steward) ·····	_____					
lambda-cyhalothrin (Warrior)	_____					
methomyl (Lannate) ·····	_____					
oxamyl (Vydate C-LV) ·····	_____					
profenofos (Curacron) ·····	_____					
propargite (Comite) ·····	_____					
pyriproxyfen (Knack) ·····	_____					
spiromesifen (Oberon) ·····	_____					
sulfoxaflor (Transform) ·····	_____					
sulfur ·····	_____					
thiamethoxam (Centric) ·····	_____					
zeta-cypermethrin (Mustang)	_____					
Other _____	_____					

Knowledge of Prior Year's Sprays

1. To what degree **were you knowledgeable** about last year's insecticide use in the Sections surrounding fields for which you made insecticide recommendations this year? (See image below)
    a. _____ Extremely knowledgeable (81 – 100%)
    b. _____ Very knowledgeable (61 – 80%)
    c. _____ Somewhat knowledgeable (41 – 60%)
    d. _____ Don't know much (21 – 40%)
    e. _____ Know very little (1 – 20%)
    f. _____ Know nothing (0%)

2. To what degree does your knowledge about last year's chemical use in the Sections surrounding your field **influence your insecticide recommendation** for whitefly control? (See image below)
    a. _____ It is something I always consider
    b. _____ 81 to 99% of the time
    c. _____ 61 to 80% of the time
    d. _____ 41 to 60% of the time
    e. _____ 21 to 40% of the time
    f. _____ 1 to 20% of the time
    g. _____ It is not something I consider



Cotton Weed Losses, All Species

Provide ALL information for your top 5 weeds only!	Rank* your top 5 weeds this year	(a) Number of acres infested by this pest:	(b) Number of acres treated for this pest:	(c) No. of applications required to control this pest:	(d) Cost of 1 application / acre (include application cost):	(e) Percent reduction in yield due to this pest:
	1 2 3 4 5	*Example: -->158 acres*	*75 acres*	*0.25 sprays*	*$56.25*	*1.50%*
purple nutsedge	○ ○ ○ ○ ○					
yellow nutsedge	○ ○ ○ ○ ○					
barnyardgrass	○ ○ ○ ○ ○					
bermudagrass	○ ○ ○ ○ ○					
brome	○ ○ ○ ○ ○					
crabgrass	○ ○ ○ ○ ○					
goosegrass	○ ○ ○ ○ ○					
johnsongrass	○ ○ ○ ○ ○					
junglerice	○ ○ ○ ○ ○					
sprangletop	○ ○ ○ ○ ○					
cocklebur	○ ○ ○ ○ ○					
devil's claw	○ ○ ○ ○ ○					
field bindweed	○ ○ ○ ○ ○					
kochia	○ ○ ○ ○ ○					
lambsquarter	○ ○ ○ ○ ○					
little mallow (cheeseweed)	○ ○ ○ ○ ○					
morningglory	○ ○ ○ ○ ○					
nettleleaf goosefoot	○ ○ ○ ○ ○					
Palmer amaranth	○ ○ ○ ○ ○					
prostrate pigweed	○ ○ ○ ○ ○					
tumble pigweed	○ ○ ○ ○ ○					
prickly lettuce	○ ○ ○ ○ ○					
puncturevine	○ ○ ○ ○ ○					
horse purslane	○ ○ ○ ○ ○					
purslane	○ ○ ○ ○ ○					
Russian thistle	○ ○ ○ ○ ○					
silverleaf nightshade	○ ○ ○ ○ ○					
spurge	○ ○ ○ ○ ○					
spurred anoda	○ ○ ○ ○ ○					
velvetleaf	○ ○ ○ ○ ○					
Wright groundcherry	○ ○ ○ ○ ○					
Other_____	○ ○ ○ ○ ○					

Notes: Just for your top 5 (FIVE) weeds, please enter a number (could be zero) in every cell under infested acres (a), treated acres (b), and percent reduction (e).

*1 = your worst weed

Cotton Weed Losses, By Weed Group

Please enter a number (could be zero) in every cell under infested acres (a), treated acres (b), and percent reduction (e).	(a) Number of acres infested by this pest:	(b) Number of acres treated for this pest:	(c) No. of applications required to control this pest:	(d) Cost of 1 application / acre (include application cost):	(e) Percent reduction in yield due to this pest:
	Example: --> 178 acres	*155 acres*	*0.2 sprays*	*$34.05*	*0.60%*
Grasses					
Broad leaves					
Sedges					

	% of Acres*	**Preferred Products (Write in Product Names)**
Herbicide Practices*	*Example: --> 92%*	*Weed-O Xtra*
3c1–4. On what percentage (%) of acres did your growers use:		
... a **preemergence herbicide**?		
... an **Early POST/topical herbicide**?		
... a **Mid-POST herbicide**?		
... a **Layby/Post direct broadcast herbicide**?		
Tank Mixtures*		
3c5–8. On what percentage (%) of acres did your growers use:		
... tank mixed herbicides during **PRE**?		
... tank mixed herbicides during **Early POST/topical**?		
... tank mixed herbicides during **Mid-POST**?		
... tank mixed herbicides during **Layby/Post direct broadcast**?		
Tillage/Cultivation*		
3c9–12. On what percentage (%) of acres did your growers use:		
... **preseason tillage?**		
... **Early POST cultivation**?		
... **Mid POST cultivation**?		
... **Layby cultivation**?		

****For any question for which you do not know the farmers' practices or cannot estimate, please fill in with an 'X'.***

Palmer Amaranth Losses and Management

Please enter a number (could be zero) in every cell under infested acres (a), treated acres (b), and percent reduction (e).	(a) Number of acres infested by this pest:	(b) Number of acres treated for this pest:	(c) No. of applications required to control this pest:	(d) Cost of 1 application / acre (include application cost):	(e) Percent reduction in yield due to this pest:
	Example: --> 124 acres	*45 acres*	*1.1 sprays*	*$41.05*	*2.10%*
Palmer amaranth					

In-field Palmer Amaranth Control Practices*	**% of Acres*** *Example: --> 45%*	**Preferred Products (Write in Product Names)** *WeedBGone Now+*
3d1–5. On what percentage (%) of acres did your growers:		
... use a **preplant/preemergence herbicide** to control Palmer Amaranth?		
... use **cultivation** to control Palmer Amaranth?		
... use **hand weeding** to control Palmer Amaranth?		
... use **glyphosate exclusively** to control Palmer Amaranth?		
... **have trouble controlling** Palmer Amaranth?		

**For any question for which you do not know the farmers' practices or cannot estimate, please fill in with an 'X'.*

Palmer Amaranth in Adjacent Habitat

3d6–10. Approximately what % kill of Palmer amaranth growing on field margins, irrigation ditches, waste areas, etc. was accomplished by your growers:

	none	1–25%	25–50%	51–75%	76–100%	Don't know
...with **glyphosate alone**?	○	○	○	○	○	○
...with **tank mixtures that include glyphosate**?	○	○	○	○	○	○
...with **herbicides other than glyphosate**?	○	○	○	○	○	○
...by **flaming, diesel, or oils**?	○	○	○	○	○	○
...by **mechanical means** (including hand-weeding)?	○	○	○	○	○	○

Other Palmer Questions

	none	1–25%	25–50%	51–75%	76–100%	Don't know
3d11–12. What percentage (%):						
... of your growers' Palmer amaranth **reached flowering** prior to death or removal?	○	○	○	○	○	○
... of the time do your growers **clean equipment after use** in Palmer infested fields?	○	○	○	○	○	○

Historically, how have you used the following herbicides?*

**One brand name is provided as an example only; in some cases, there are many products containing the same active ingredient.*

Herbicide	PRE (Check all that apply)	POST	Layby	Never (Check one)	Rarely (not every year)	Often (every year)	"Go to" Product	Grasses (Check all that apply)	Broadleaves	Sedges	All Weeds
carfentrazone (Aim)	○	○	○	○	○	○	○	○	○	○	○
clethodim (Select Max)	○	○	○	○	○	○	○	○	○	○	○
diuron (Direx)	○	○	○	○	○	○	○	○	○	○	○
fluazifop (Fusilade)	○	○	○	○	○	○	○	○	○	○	○
flumioxazin (Chateau)	○	○	○	○	○	○	○	○	○	○	○
flumioxazin+pyroxasulfone (Fierce)	○	○	○	○	○	○	○	○	○	○	○
glufosinate (Liberty)	○	○	○	○	○	○	○	○	○	○	○
glyphosate (Roundup)	○	○	○	○	○	○	○	○	○	○	○
halosulfuron (Sandea)	○	○	○	○	○	○	○	○	○	○	○
prometryn (Caparol)	○	○	○	○	○	○	○	○	○	○	○
diuron + linuron (Layby Pro)	○	○	○	○	○	○	○	○	○	○	○
metolachlor (Dual Magnum)	○	○	○	○	○	○	○	○	○	○	○
MSMA	○	○	○	○	○	○	○	○	○	○	○
norflurazon (Solicam)	○	○	○	○	○	○	○	○	○	○	○
oxyfluorfen (Goal)	○	○	○	○	○	○	○	○	○	○	○
pendimethalin (Prowl)	○	○	○	○	○	○	○	○	○	○	○
prythiobac (Staple)	○	○	○	○	○	○	○	○	○	○	○
pyraflufen (ET)	○	○	○	○	○	○	○	○	○	○	○
sethoxydim (Poast)	○	○	○	○	○	○	○	○	○	○	○
trifloxysulfuron-sodium (Envoke)	○	○	○	○	○	○	○	○	○	○	○
trifluralin (Treflan)	○	○	○	○	○	○	○	○	○	○	○
Other ____________	○	○	○	○	○	○	○	○	○	○	○

<u>This year</u>, indicate your herbicide use in % acres treated & no. of sprays made for each cotton technology*

% Acres Sprayed	No. of Applications	PRE	POST	Layby	% Reported to ADA on <u>1080</u>
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
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		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	
		○	○	○	