# **Weed Management Survey - Rice**

## **Demographics**

1.	Which of the following best describe your employe	
	a. Farmer	

- b. Consultant
- c. Industry representative (sales, tech service, distribution, etc.)
- d. Other (explain)
- 2. How many rice acres did you farm or scout this year?
- 3. How long have you been actively involved in rice production?
  - a) 5 years or less
  - b) 6-10 years
  - c) 11-15 years
  - d) 16-20 years
  - **e)** 21-25 years
  - f) 26-30 years
  - g) More than 30 years

4. County(ies) farmed or scouted in:
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### **General Weed Control**

- 5. What percentage of the rice acres you farm, or scout are continuous rice (3 years consecutive rice or more)?
  - a. 0-9%
  - b. 10-19%
  - c. 20-29%
  - d. 30-39%
  - e. 40-49%
  - f. ≥50%
- 6. What is the limitation for crop rotation? (check all that apply)
  - a. Landowner requirements
  - b. Zero-grade fields
  - c. Field/soil type
  - d. Commodity price/profitability
  - e. Other\_\_\_\_\_

	u.	120 – 139 \$/acre		
	e.	140 – 159 \$/acre		
	f.	160 – 179 \$/acre		
	g.	180 – 199 \$/acre		
	h.	Greater than 200 \$/acre		
	Rank in order of importance what drives the selection of your first postemergence herbicide for weed control?  a. Weed species emerged			
		Field history		
		Known resistance		
		Previous year's herbicide program		
		Crop injury concerns		
		Price		
	What are your three most problematic weeds in paddy rice? Rank them based on importance, with #1 being most important.			
	<ol> <li>What are your three most problematic weeds in furrow-irrigated rice? Rank them based on importance, with #1 being most important.</li> </ol>			
11.   3	importa Provide and/or	ance, with #1 being most important.  2 areas of weed management research that would benefit your operation's profitability overall weed control.		
11.   	importa Provide and/or a	ance, with #1 being most important.  2 areas of weed management research that would benefit your operation's profitability		
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11.   	Provide and/or a b Rate th importa	e 2 areas of weed management research that would benefit your operation's profitability overall weed control.  e importance of the current research or educational efforts on a scale of 1 to 5, where 1 important; 2 = rarely important; 3 = occasionally important; 4 = important; and 5 = very		
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7. Average cost of herbicides for weed control each year?

a. Less than 80 \$/acreb. 80 - 99 \$/acrec. 100 - 119 \$/acre

- i. Strategies to reduce the occurrence and spread of resistant weeds
- j. Expansion of weed control options in row rice
- k. Impact of uncontrolled weeds on rice yields and overall economics
- I. Application optimization (nozzles, spray volume, adjuvants, etc.)

#### **Herbicide-resistant Weeds**

- 13. Rate your concern with herbicide resistant weeds (select most appropriate)
  - a. None
  - b. Slight
  - c. Moderate
  - d. High
- 14. Do you suspect herbicide-resistant weeds (excluding barnyardgrass) in the rice fields you scout?
  - a. No
  - b. Yes
- 15. Provide the weeds (excluding barnyardgrass) and herbicide to which they are resistant.
- 16. What strategies are you using to control the herbicide-resistant weeds you listed above? (choose up to 3 strategies)
  - a. Alternative herbicides
  - b. Crop rotation
  - c. Seedbank management
  - d. Cover crops
  - e. Fall deep tillage
  - f. Seed (trait) selection
  - g. Pinpoint flood
  - h. Earlier planting dates
- 17. Are you doing anything to minimize the occurrence of new herbicide-resistant weeds or spread of resistance?
  - a. No
  - b. Yes
- 18. If yes, please explain what you are doing.

## **Barnyardgrass**

19. What percent of fields you farm or scout has barnyardgrass?

20.	What percent of your overall herbicide expenses this year was for barnyardgrass control?				
			(%)		
21.	<ul> <li>What percent of the time do you fail to effectively control barnyardgrass with your first postemergence herbicide application?</li> <li>(%)</li> </ul>				
22.	Do	you	have herbicide-resistant barnyardgrass on your farm?		
	a.	-	es, to what herbicides are barnyardgrass resistant? (check all that apply)		
		i.	Command		
		ii.	Prowl		
		iii.	Bolero		
		iv.	Facet		
		٧.	ALS Inhibitors (Newpath/Preface, Grasp, Beyond/Postscript, Regiment)		
		vi.	Clincher/Ricestar/Provisia		
		vii.	Propanil		
		viii.	Loyant		
		ix.	Roundup (pre-plant)		
	b.	Wh	at herbicides are still effective for barnyardgrass on your farm? (check all that apply)		
		i.	Command		
		ii.	Prowl		
		iii.	Bolero		
		iv.	Facet		
		٧.	ALS Inhibitors (Newpath/Preface, Grasp, Beyond/Postscript, Regiment)		
		vi.	Clincher/Ricestar/Provisia		
		vii.	Propanil		
		viii.	Loyant		
		ix.	Roundup (pre-plant)		
23.			ou submitted a barnyardgrass sample to the Herbicide Resistance Screening Program e U of A System Division of Agriculture in the past 5 years?		
	If y	es, c	loes this service help you make informed decisions in subsequent years?		
24.	Но	w m	uch average yield loss do you attribute to barnyardgrass in your rice?		
			0-4 bu/acre		
			5-9 bu/acre		
		c.	10-19 bu/acre		
			20-29 bu/acre		
			30-39 bu/acre		
		f.	≥40 bu/acre		
25.	In :	the r	nost heavily infested fields, how much yield loss occurs (maximum loss)?		

	a.	0-14 bu/acre	
	b.	15-29 bu/acre	
	c.	30-44 bu/acre	
	d.	45-59 bu/acre	
	e.	60-74 bu/acre	
	f.	75-89 bu/acre	
	g.	≥90 bu/acre	
26.	Rank th	ne importance of the following factors in causing failure of herbicides to control	
	barnya	rdgrass on your farm or scouted acres.	
	1 = higl	nly important; 2 = moderately important; 3 = slightly important; 4 = not important	
	Resista	nce	
Lack of adequate coverage			
	nmental conditions		
	Size at	application	
	Herbici	de selection	
27.	If the ir	nitial herbicide application for barnyardgrass control fails, on average, how many	
	additio	nal applications are required to control it?	
	a.	One	
	b.	Two	
	c.	Three	
	d.	I never control it	
28.	Which	of the following densities would best describe the barnyardgrass population on your farm	
	if herbi	cides were not applied? (choose only one)	
	a.	No barnyardgrass present	
	b.	0.1 to 0.9 plants per 10 ft <sup>2</sup>	
	C.	1 to 9 plants per 10 ft <sup>2</sup>	
	d.	10 to 99 plants per 10 ft <sup>2</sup>	
	e.	100 to 999 plants per 10 ft <sup>2</sup>	

- 29. Which of the following densities best describe the barnyardgrass population in your 2020 rice crop at harvest? (choose only one)
  - a. No barnyardgrass present

f. 1,000 or greater plants per 10 ft<sup>2</sup>

- b. 0.1 to 0.9 plants per 10 ft<sup>2</sup>
- c. 1 to 9 plants per 10 ft<sup>2</sup>
- d. 10 to 99 plants per 10 ft<sup>2</sup>

- e. 100 to 999 plants per 10 ft<sup>2</sup>
- f. 1,000 or greater plants per 10 ft<sup>2</sup>
- 30. What strategies are you implementing to manage barnyardgrass? (choose up to 3 strategies)
  - a. Alternative herbicides
  - b. Crop rotation
  - c. Seedbank management
  - d. Cover crops
  - e. Fall deep tillage
  - f. Seed (trait) selection
  - g. Pinpoint flood
  - h. Earlier planting dates