Herbicide Resistance Testing in AR Weeds – Bob Scott, Extension Weed Scientist

Well, we missed a bunch of weeds what can we do….



Let's face it, if you are calling me this late in the year it means the wheels came off the weed control program and the truth is it's too late to spray much of anything, except maybe a harvest aid or revenge treatment on big weeds. So, what is left to do?

Well, not much for this year's crop, yard or pasture. But perhaps we can help you prepare for next year and better understand what you are dealing with. For almost 20 years now, the weed science group has conducted a resistance screening program for weeds that make it through multiple herbicide applications. This program is made possible by support from the soybean and rice promotion boards and the Division of Agriculture. It is conducted at no cost to the grower, consultant or county.

The process that we use to determine if a weed is resistant is a whole plant assay. Simply put, we plant the seed that is sent in, spray the young plants with a variety of herbicides and determine or estimate whether and to what degree the given plant is resistant to that herbicide. A report is then generated and sent back to the county or person who sent in the sample. You can plan a better weed control approach for next year armed with the knowledge of what resistance battle you may be facing and hopefully save some money!

Samples can be sent directly to Dr. Jason Norsworthy in Fayetteville, dropped off with me or Dr. Tom Barber in Lonoke, or sent in though your county office. It is important to remember that we need mature seed so that they will germinate. The samples should be stored in PAPER, not plastic bags, and ample seeds should be collected to ensure that enough comes up for complete testing. We will test any weed that you suspect you have resistance to. Also, be sure you are collecting seeds, some plants like male pigweed plants or yellow nutsedge do not produce seed. You would need a female pigweed plant and in the case of yellow nutsedge, the collection of below ground tubers.

See the form below or follow the link and please complete as much information as possible.

https://arkansascrops.uada.edu/posts/crops/rice/Herbicide%20Resistant%20Weed%20Information%20Sheet.pdf

SUSPECTED HERBICIDE-RESISTANT WEED SEED INFORMATION SHEET

(To accompany weed seed to be evaluated for herbicide resistance)

Date: _____

Producer: _____ Email: _____

Address: _____

City: _____ County: _____ State: _____ Zip: _____

Name & Email of Person Submitting Sample: _____

GPS Coordinates: _____

How many acres are infested at this location? _____ acres

What is the weed problem in the field? _____

What has the herbicide program been in this field for the past 5 years (including current year)?

Year	Crop	Herbicide Program
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

County Extension Contact Person:

Name: _____ _____

Address: _____

_____

_____

Phone: _____

Email: _____

Contact person for testing:

Dr. Jason K. Norsworthy

Distinguished Professor

Weed Scientist

1354 West Altheimer Dr.

Fayetteville, AR 72704

jnorswor@uark.edu

479-313-1265