

2013 Team Event Explanation

This 320 acre soybean field is located in Sherman County, Texas. It has problems with glyphosate resistant kochia and pigweed. It also has green and yellow foxtail as well as johnsongrass. The field has a problem with Phytophthora root rot and soybean aphid.

The field has to be no-till.

Seed selection:

The correct answer is IN230LL due to it being Liberty-Link and having a high Phytophthora resistance rating. It also has high yield for Sherman County. It is not the cheapest variety for production, but it is the best for management practices to avoid using a total Roundup Ready program.

The second best answer would be PY99RR. It has high disease resistance ratings along with good yield for price of seed.

Weed Control:

The best solution for weed control is to use 22 oz. of RT3 mixed with 2/3 pint 2-4D LV6 per acre mixed with 1 quart NIS and 8.5 pounds of bag AMS per 100 gallons of spray for the pre-emergence burndown. Post emergence application of 22 oz. of Liberty SL with 1 qt. NIS and 17 pounds bag AMS per 100 gallons of spray to help control the kochia and pigweed. Clethodim 2E at 6oz per acre mixed in to help control the foxtails and seedling johnsongrass. These applications would be done by ground sprayer using 10 gallons of spray per acre.

Pre-harvest burn would be done using RT3 at 22 oz. with 1 qt. NIS and 8.5 pounds bag AMS per 100 gallons of spray. This would be applied by airplane at 3 gallons per acre. This will help control the johnsongrass.

The second best answer would be using the Roundup PowerMax at 22 oz. to replace the Liberty SL in the program. This would be counting on the 2-4D LV6 to control the pigweed and kochia for the entire season. This would not be effective. This program is cheaper, but not best management.

RT3 is not labeled for a post emergence application but would be used for pre-emergence and pre-harvest applications.

2-4D LV6 is not labeled for use as a post emergence or pre-harvest application on soybeans. It will cause damage.

Insect Control:

To control the soybean aphid, Baythroid XL would be applied at 2.8 oz (aerial applications requires the higher rate) per acre by airplane. Due to timing of application it can't be mixed with the pre-harvest herbicide application.