



Texas Agricultural Extension Service  
The Texas A&M University System

# Result Demonstration Report

## Control of Pigweed Species in Grain Sorghum with Ally in 1999

Matt Rowland and Brent Bean\*

Cooperator: Ralph Paschel  
County Agent: Dennis Newton  
Agripartner: Gary Chadwick

### Summary

A study was conducted to evaluate Ally alone and in tank mixes for control of pigweed (Palmer amaranth) in grain sorghum. Control with Ally alone at 0.05 oz/Ac was 70%. Adding 8 oz 2,4-D amine to the Ally treatment increased control to 80%. Similar control was observed with an Ally plus Clarity treatment. The standard treatments of 2,4-D and Clarity alone provided approximately 80% control. Some slight stunting of the sorghum from the Ally treatments was observed 4 weeks after treatment.

### Introduction and Objectives

Due to high herbicide and low crop prices, grain sorghum producers have to keep input costs down while maintaining a reasonable level of weed control. Ally herbicide can be applied for post-emergence control of broadleaf weeds as well as provide residual control, all for a very low cost. Therefore, this study was established to evaluate crop injury and weed control and to provide support data for an Ally label in grain sorghum.

### Materials and Methods

In 1999 applications were made to Pioneer 84G62 at the 5 inch stage and to 1-12 inch pigweed (Palmer amaranth). All applications were made with a tractor mounted CO<sub>2</sub> sprayer at 3 mph and 10 GPA. Ratings for weed control and crop injury were taken at approximately 2, 4, and 8 weeks after treatment application. Ratings were based on a 0 to 100% scale with 0 = no control or injury and 100 = complete control and crop kill. Plot size was 15 by 25 feet and all treatments were replicated 4 times.

### Results

*See following table.*

---

\*Extension Assistant and Extension Agronomist

**Table 1. Pigweed control with Ally in grain sorghum in 1999.**

Treatment	Rate Prod./Ac	Pigweed Control 2 WAT <sup>1)</sup>	Pigweed Control 4 WAT	Crop Injury 2 WAT	Crop Injury 4 WAT	Crop Injury 8 WAT
Ally	0.05 oz	71	71	19	14	0
Ally + NIS*	0.05 oz	70	70	20	15	0
Ally + 2,4-D + NIS	0.05 oz + 8 oz	84	88	13	3	0
Ally + 2,4-D	0.05 oz + 8 oz	76	80	10	5	0
Ally + Clarity + NIS	0.05 oz + 4 oz	83	80	15	6	0
2,4-D + NIS	8 oz	65	75	0	0	0
Clarity + NIS	4 oz	70	83	0	0	0

\* All NIS applied at 0.25% v/v.

<sup>1)</sup>WAT = Weeks after treatment application.