

BETTER FARM CROPS FIELD OBSERVATION

Water in the Root Zone

Sudan Grass Emergence After WEX® Burndown and Amplify-D® Seed Treatment



Snapshot

Grower: Jerad N.

Location: Beaver County, Oklahoma

Crop: sudan grass

Previous crop: triticale

No untreated check available

Short summary

After a June 15 burndown pass with glyphosate, 2,4-D, and WEX®, the field received an estimated 2 to 3 inches of rain plus one unmeasured rain event. Jerad N. observed water moving into the soil profile rather than across the field. The field was disked Wednesday and planted Friday, July 3, with Amplify-D® treated sudan grass seed. Emergence was visible by Tuesday, and plants dug Wednesday showed early root activity.

The Situation

The field had been planted to triticale and was harvested in May, producing approximately two dense big round bales per acre. After harvest, the field moved toward a summer sudan grass planting. The post-harvest period included substantial rain, with enough water movement in the area to destroy water gaps and move trees. That makes the water movement story especially important: water that infiltrates can support crop growth; water that runs off to the bar ditch does no good for the root zone.

Program Used

Timing	Product / practice	Rate	Notes
June 15 burndown	WEX®	1 qt/ac	Applied with burndown spray program
June 15 burndown	Glyphosate	32 oz/ac	Burndown herbicide
June 15 burndown	2,4-D	1 pt/ac	Burndown herbicide
Before planting	Amplify-D®	2 oz/50 lb seed	Seed treatment
Friday, July 3	Sudan grass planting	25 lb/ac	Field disked Wednesday; planted Friday

Rainfall and Timeline

Date / timing	Event	Observation value
May	Triticale harvested - about two dense big round bales/ac	Field background
June 15	Burndown: glyphosate + 2,4-D + WEX®	WEX® ahead of multiple rains
June 15 to planting	2 to 3 inches rain, plus one unmeasured event	Water movement / infiltration story
Wednesday	Field disked	Final field prep
Friday, July 3	Planted at 25 lb/ac; 0.20 inch rain that evening	Establishment window
Tuesday	Emergence observed	Fast emergence
Wednesday	Plants dug and photographed	Early root activity

What Was Observed

- Water movement: Jerad N. observed water moving down into the soil profile instead of across the field toward the bar ditch.
- Emergence: sudan grass was planted Friday and visible emergence was observed by Tuesday.
- Root activity: plants dug Wednesday showed roots extending beyond visible top growth.
- System story: WEX® in the burndown pass, Amplify-D® on the seed, rain after planting, fast emergence, and early root growth fit together as an establishment story.

Photo Documentation



Close-up emergence: seedlings breaking through the soil surface after Friday planting.



Dug seedlings: early root activity visible beside a tape measure on Wednesday.



Row emergence: young sudan grass emerging in the field.

Better Farm Crops Takeaway

Water in the root zone is the point. In this observation, WEX® was part of the burndown program ahead of multiple rain events, and Amplify-D® was used on the seed before planting. The field then moved from post-harvest rain, to final field prep, to planting, to visible emergence within a few days.

The practical takeaway is that early establishment is a system: field condition, water movement, seed treatment, planting timing, rainfall, emergence, and root activity all matter. The crop above ground tells part of the story; the roots and the water in the soil profile tell the rest.

Field observation note

This report is based on grower-supplied information and photos. There was no untreated seed check or nearby untreated comparison. This should be presented as a field observation, not a replicated trial or proof of product performance. Results may vary by field, weather, soil type, timing, and management.

Call to Action

Want to talk through where WEX®, Amplify-D®, or the AgroVantage system may fit in your operation? Contact the Better Farm Crops team to review your crop, field conditions, and goals.

[BetterFarmCrops.com](https://www.betterfarmcrops.com)