

POST Herbicide Tank Mixes in Enlist Soybean Brooklyn, WI 2024

Trial Information

Trial Sponsor: Corteva

Objective: Evaluate tank mixes for postemergence control of glyphosate-resistant waterhemp in Enlist soybean

Crop: Soybean

Hybrid: O'SOY 2024EL-3

Weed species (pressure): glyphosate-resistant waterhemp

Herbicide Application(s): PRE – 5/24
POST – 6/27 (V3 soybean)
LPOST – 7/10 (R1/R2 soybean)

For the full report see trial #24-BRO-SB03 in the [2024 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

POST Herbicide Tank Mixes in Enlist Soybean (Brooklyn, WI 2024)

Trt # Herbicide (rate acre ⁻¹)		Injury (%)		Waterhemp (%)			Yield ^b bu acre ⁻¹
		7/3	7/11	7/11	7/23	9/18	
1	Treated Check ^c	0	0	0	0	0	57 d
Two-Pass – PRE ^c (5/24) fb POST (6/27)							
2	Enlist One (2 pt) + Liberty (32 oz) + AMS ^d	3.8	2.5	97	98	99	63 abc
3	Enlist One (2 pt) + Roundup PM3 (20 oz) + AMS ^d	1.5	1.3	94	98	99	67 ab
4	Enlist One (2 pt) + Liberty (32 oz) + Roundup PM3 (20 oz) + AMS ^d	1.8	1.8	95	98	97	64 abc
5	Enlist One (2 pt) + Liberty (32 oz) + Enversa (3 pt) + AMS ^d	2.5	1.8	97	99	100	63 abc
6	Enlist One (2 pt) + Roundup PM3 (20 oz) + Enversa (3 pt) + AMS ^d	1.5	1.0	92	97	99	63 abc
7	Enlist One (2 pt)+Liberty (32 oz)+Roundup PM (20 oz)+Enversa (3 pt)+AMS ^d	2.3	1.5	94	99	98	67 a
8	Enlist One (2 pt) + Flexstar (1 pt) + AMS ^d	6.3	11.5	97	99	100	66 abc
9	Enlist One (2 pt) + Liberty (32 oz) + Flexstar (1 pt) + AMS ^d	7.8	12.5	99	100	99	65 abc
10	Enlist One (2 pt) + Roundup PM3 (20 oz) + Flexstar (1 pt) + AMS ^d	7.8	12.5	99	100	99	65 abc
11	Liberty (32 oz) + Flexstar (1 pt) + AMS ^d	7.0	11.0	98	99	97	64 abc
Three-Pass – PRE ^c (5/24) fb POST (6/27) fb LPOST (7/10)				LPOST			
12	Enlist One (2 pt) + Liberty (32 oz) + AMS ^d fb Enlist One (2 pt) + Liberty (32 oz) + AMS ^d	2.5	1.5	99	100	100	62 abc
13	Enlist One (2 pt) + Liberty (32 oz) + AMS ^d fb Liberty (32 oz) + Roundup PM3 (20 oz) + AMS ^d	3.3	0.8	97	100	100	61 cd
14	Enlist One (2 pt) + Roundup PM3 (20 oz) + AMS ^d fb Liberty (32 oz) + AMS ^d	2.0	1.5	94	100	100	61 bcd
LSD ($\alpha=0.10$)		1.0	1.2	2	ns	2	3
p value		<.001	<.001	<.001	0.249	0.034	<.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cSonic (5 oz/a) was applied PRE over the entire trial area including the treated check (treatment #1)

^dAll POST applications included AMSOL (liquid AMS) applied at 2.5% v/v.

POST Herbicide Tank Mixes in Enlist Soybean Brooklyn, WI 2024

Plot pictures taken on 7/3
6 days after the POST application

The number in the upper right-hand corner is the average %
soybean injury of 4 replications

6 days after POST (7/3)
PRE: 5 oz Sonic *fb*

0%



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

3%

POST: 2 pt Enlist One + 32 oz Liberty + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

2%

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

2%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz Roundup PM3 + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

3%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

2%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 3 pt Enversa + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

2%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz RU PM3 + 3 pt Enversa + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

6%

POST: 2 pt Enlist One + 1 pt Flexstar + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

8%

POST: 2 pt Enlist One + 32 oz Liberty + 1 pt Flexstar + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

8%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 1 pt Flexstar + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

7%

POST: 32 oz Liberty + 1 pt Flexstar + AMS



POST Herbicide Tank Mixes in Enlist Soybean Brooklyn, WI 2024

Plot pictures taken on 7/10
13 days after the POST application
The day of the LPOST application

The number in the upper right-hand corner is the average %
waterhemp control of 4 replications

13 days after POST (7/10)
PRE: 5 oz Sonic *fb*

0%



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

97%

POST: 2 pt Enlist One + 32 oz Liberty + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

94%

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

95%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz Roundup PM3 + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

97%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

92%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 3 pt Enversa + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

94%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz RU PM3 + 3 pt Enversa + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

97%

POST: 2 pt Enlist One + 1 pt Flexstar + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 32 oz Liberty + 1 pt Flexstar + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 1 pt Flexstar + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

98%

POST: 32 oz Liberty + 1 pt Flexstar + AMS



POST Herbicide Tank Mixes in Enlist Soybean Brooklyn, WI 2024

Plot pictures taken on 7/23
26 days after the POST application
13 days after the LPOST application

The number in the upper right-hand corner is the average %
waterhemp control of 4 replications

26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

0%



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

98%

POST: 2 pt Enlist One + 32 oz Liberty + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

98%

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

98%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz Roundup PM3 + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

97%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 3 pt Enversa + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz RU PM3 + 3 pt Enversa + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 1 pt Flexstar + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

100%

POST: 2 pt Enlist One + 32 oz Liberty + 1 pt Flexstar + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

100%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 1 pt Flexstar + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

99%

POST: 32 oz Liberty + 1 pt Flexstar + AMS



13 days after LPOST (7/23)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 32 oz Liberty + AMS *fb*

LPOST: 2 pt Enlist One + 32 oz Liberty + AMS

100%



13 days after LPOST (7/23)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 32 oz Liberty + AMS *fb*

LPOST: 32 oz Liberty + 20 oz Roundup PowerMAX3 + AMS

100%



13 days after LPOST (7/23)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS *fb*

LPOST: 32 oz Liberty + AMS

100%



POST Herbicide Tank Mixes in Enlist Soybean Brooklyn, WI 2024

Plot pictures taken on 10/1
The day of soybean harvest

The number in the upper right-hand corner is the average %
waterhemp control of 4 replications



Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 32 oz Liberty + AMS



Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS

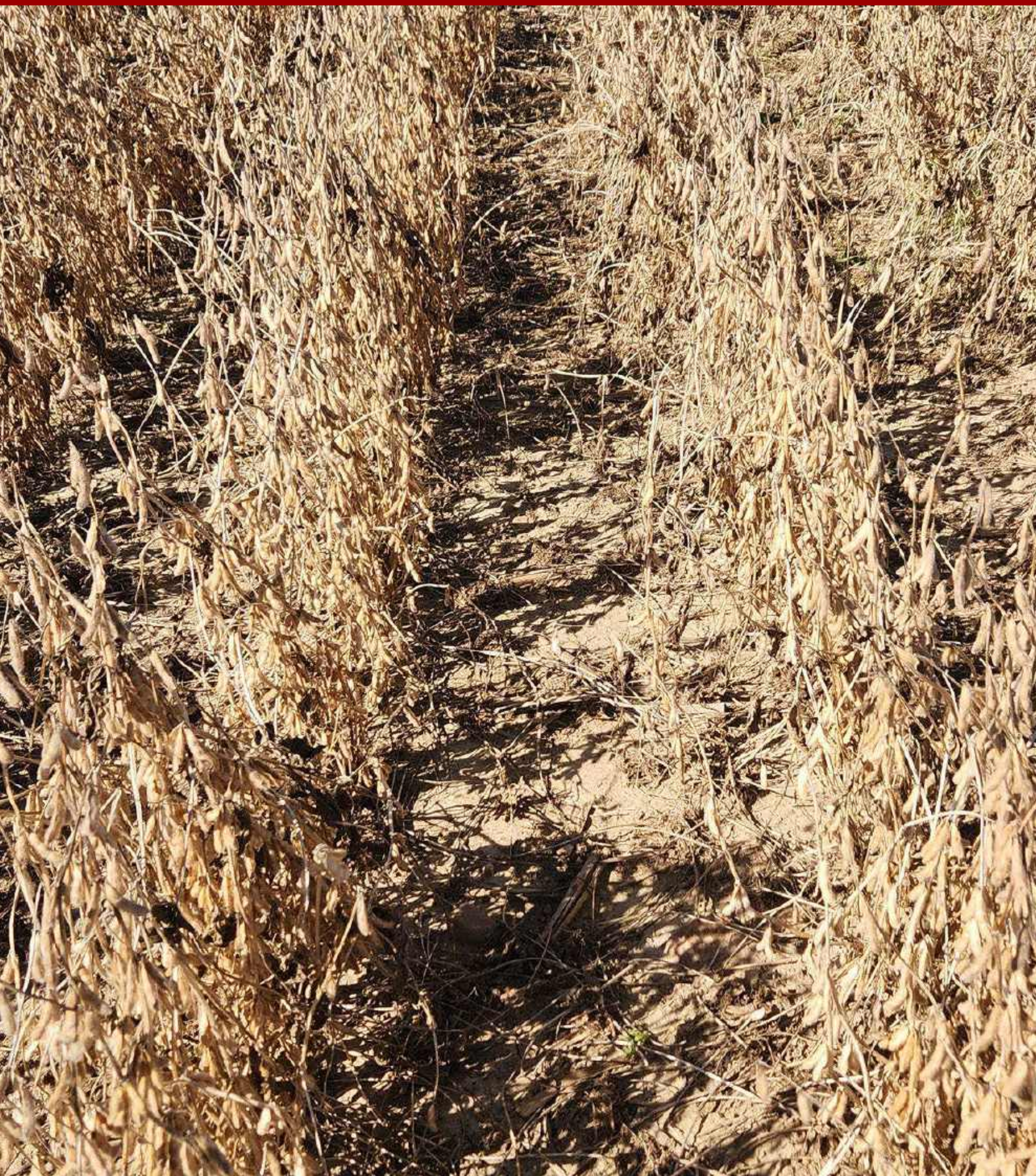


Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

97%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz Roundup PM3 + AMS



Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

100%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS



Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 3 pt Enversa + AMS

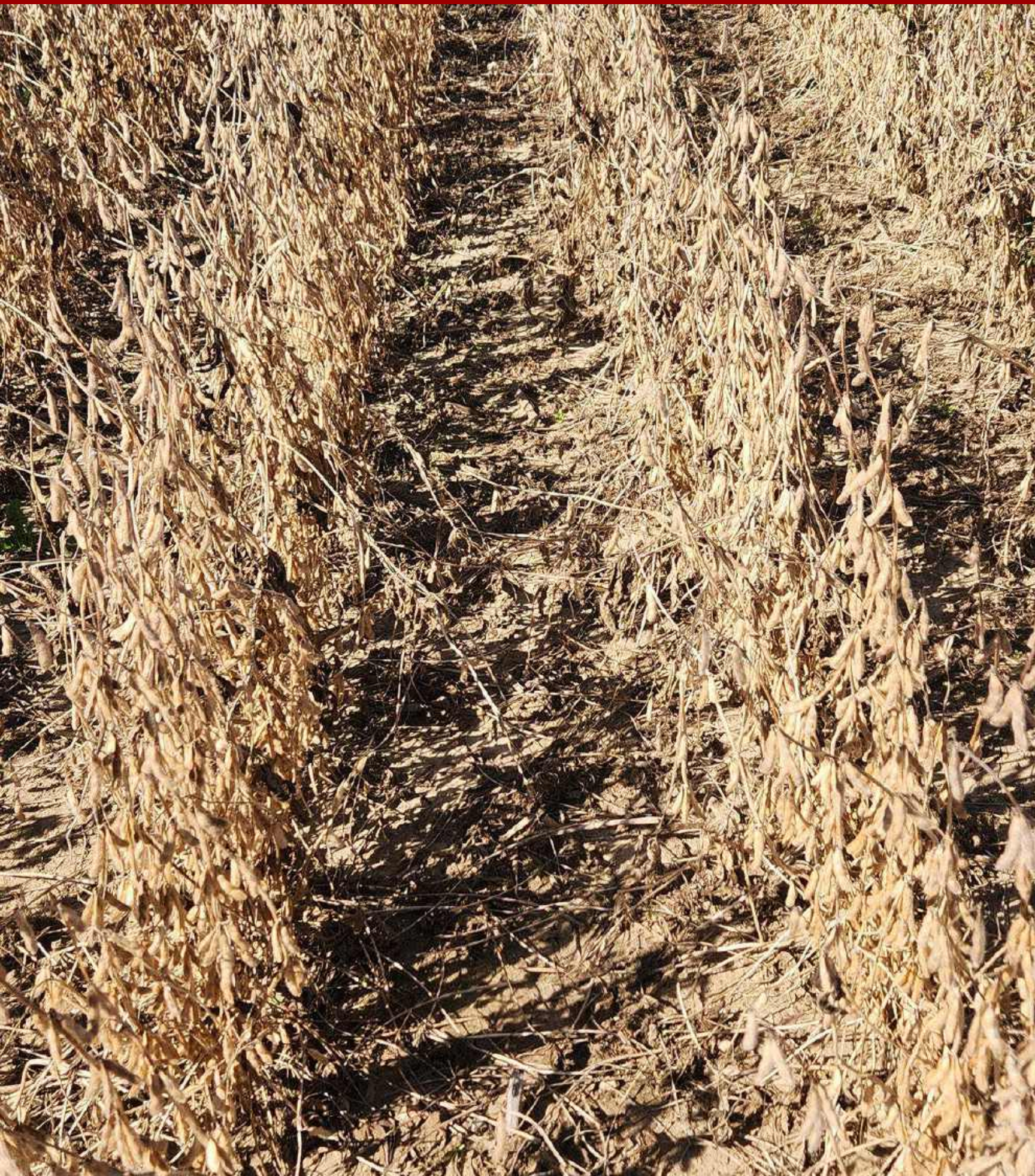


Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

98%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz RU PM3 + 3 pt Enversa + AMS



Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

100%

POST: 2 pt Enlist One + 1 pt Flexstar + AMS



Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 32 oz Liberty + 1 pt Flexstar + AMS

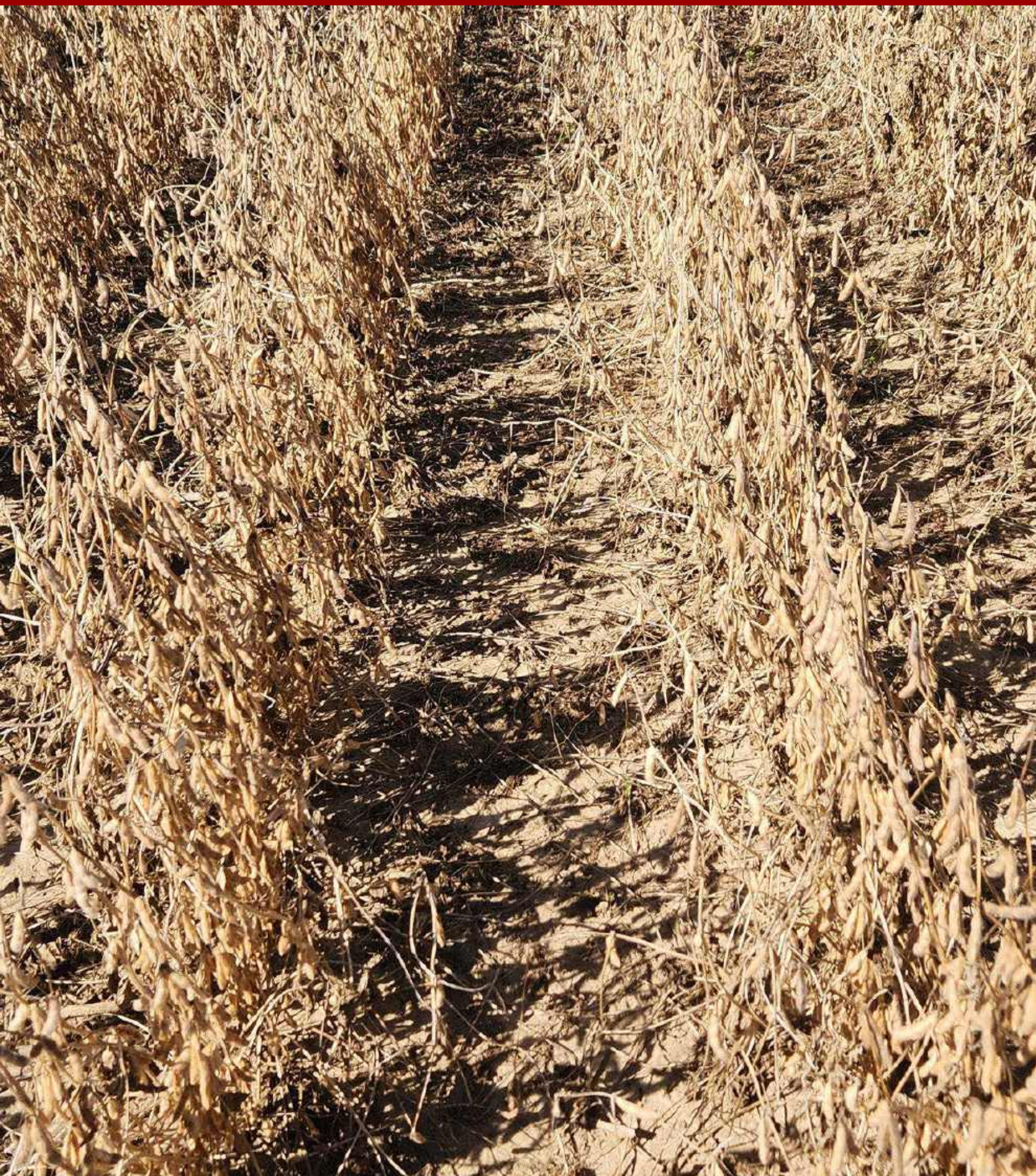


Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 1 pt Flexstar + AMS



Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

97%

POST: 32 oz Liberty + 1 pt Flexstar + AMS



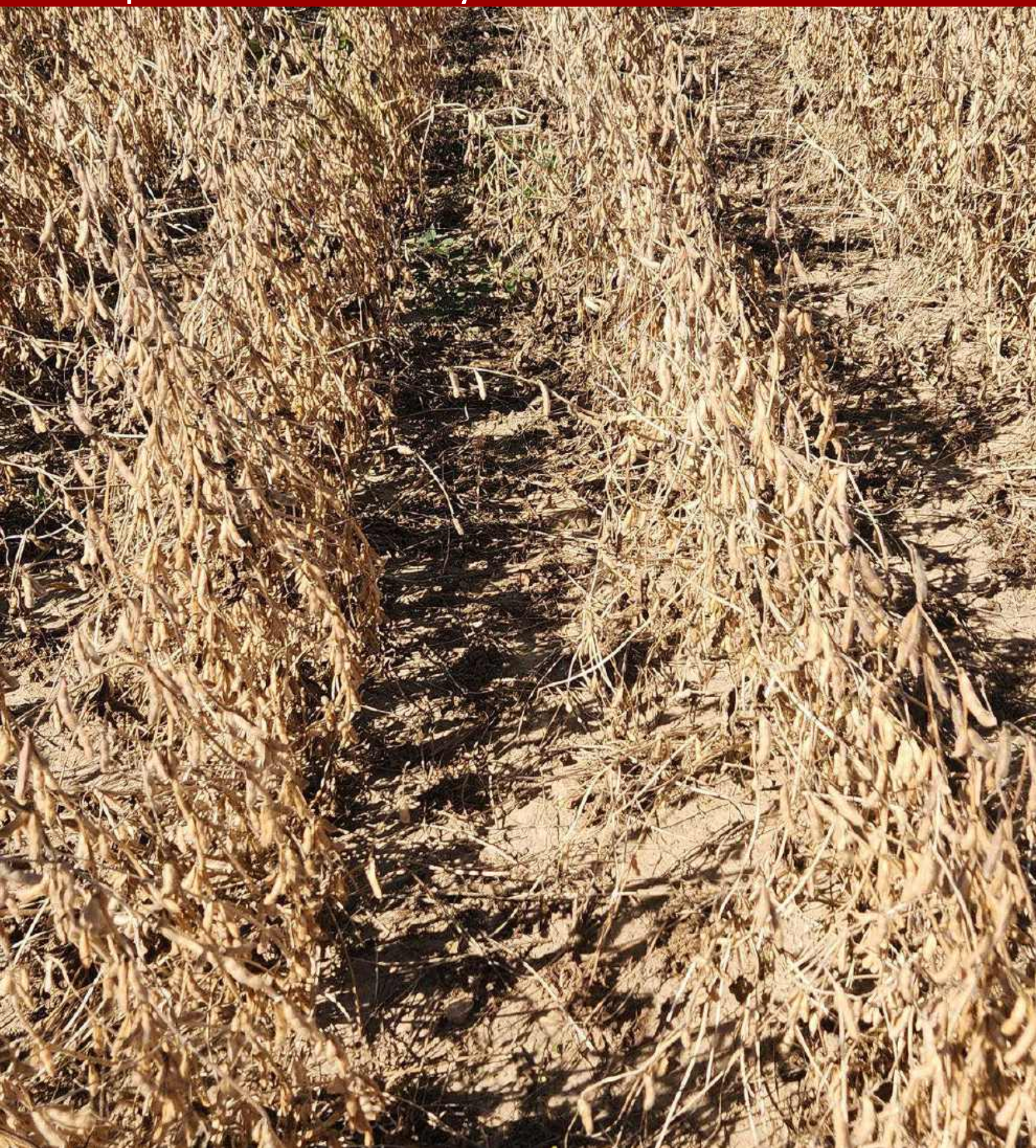
Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 32 oz Liberty + AMS *fb*

LPOST: 2 pt Enlist One + 32 oz Liberty + AMS

100%



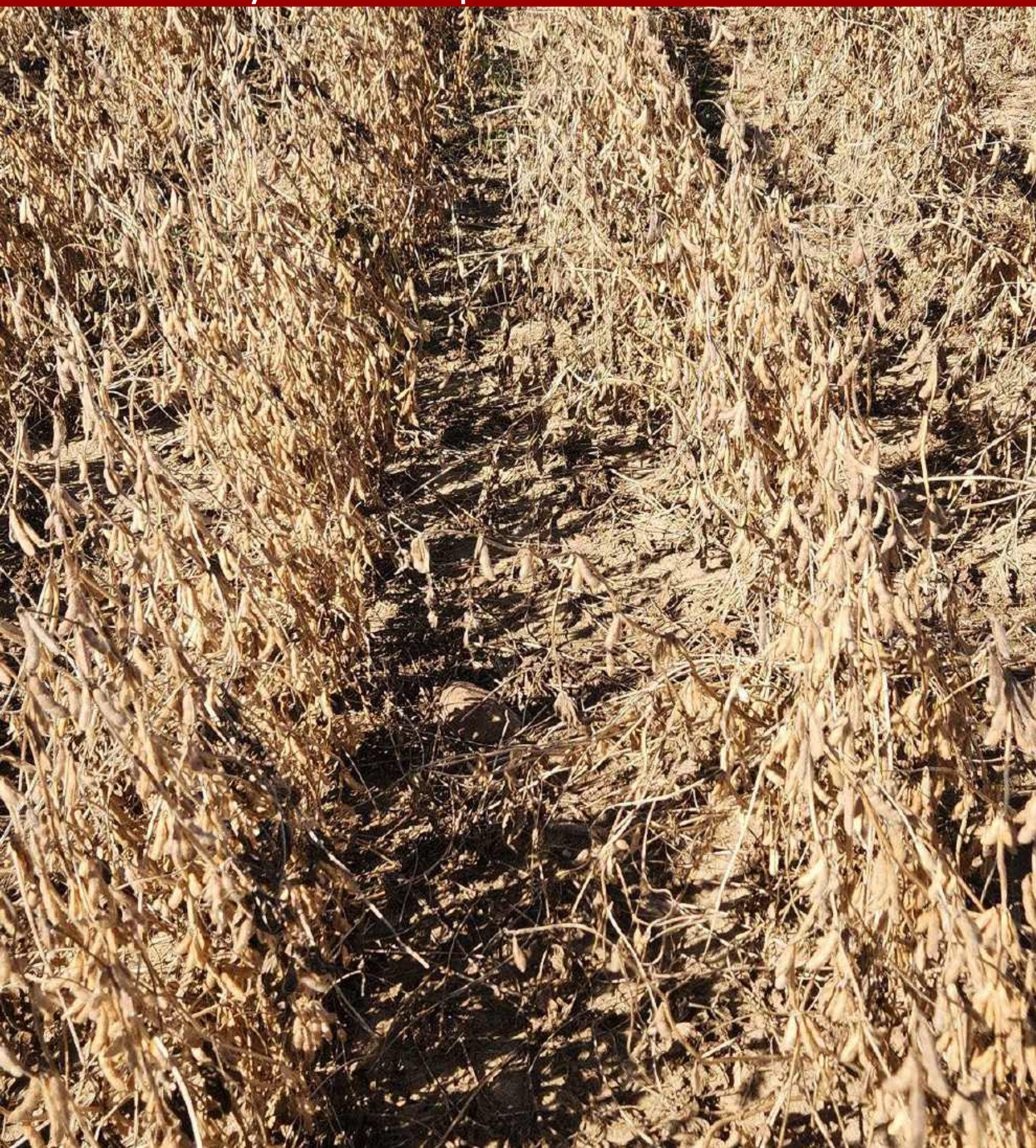
Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 32 oz Liberty + AMS *fb*

LPOST: 32 oz Liberty + 20 oz Roundup PowerMAX3 + AMS

100%



Soybean Harvest (10/1)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS *fb*

LPOST: 32 oz Liberty + AMS

100%

