ENDOSIGHT®
confidence in a targeted application

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In 2023, Four Star began to study Endosight® nanotech adjuvant with mold spray applications on dry beans. These spray passes are critical as fungal pressure can radically reduce yields in this crop. For three years now, tests have shown Endosight® can improve intake of the mold spray applications, enhance the application, and substantially improve profitability.

2023 Dry Bean Yields - Michigan

	Two mold spray passes (No Endosight®)	Endosight® w/ 1st spraying	Endosight® added both mold spray apps
Weight (lbs)	1540	1730	1940
Moisture %	16.8	16.9	16.7
Test Weight	64.6	65.2	65.2

625' x 35' test strips = 0.5 acres

	100# / bag gain (per 0.5 acres)	100# / bag gain (per acre)	Revenue increase @ $40/bag price	Cost Endosight® Pass(es)	PER ACRE gain
1st Pass	1.90	3.80	$152.00	$2.88	$149.12
Both Passes	4.00	8.00	$320.00	$5.76	$314.24

2024 Dry Bean Yields - Michigan (Planted after triticale harvest)

	Two mold spray passes (No Endosight®)	Endosight® w/ 1st spraying	Endosight® w/ 2nd spraying	Endosight® added both mold spray apps
Weight (lbs) / acre	661	700	680	726
Moisture %	12.8	12.7	12.7	12.6
Test Weight	64.1	64.4	64.2	64.5

Test Strips: 0.318 acres

	100# / bag gain (.318acres)	100# / bag gain per acre	Revenue increase @ $32/bag price	Cost Endosight® Pass(es)	PER ACRE gain
1st Pass	0.39	1.23	$39.25	$2.88	$36.37
2nd Pass	0.19	0.60	$19.12	$2.88	$16.24
Both Passes	0.65	2.04	$65.41	$5.76	$59.65

2025 Dry Bean Yields - Michigan (experienced very dry conditions)

	Two mold spray passes (No Endosight®)	Endosight® w/ 1st spraying	Endosight® w/ 2nd spraying	Endosight® added both mold spray apps
Weight (lbs) / acre	1260	1340	1320	1520
Moisture %	13.9	13.4	13.7	13.3
Test Weight	62.8	62.8	62.9	62.8

Test Strips: 0.48 acres

	100# / bag gain (.48acres)	100# / bag gain per acre	Revenue increase @ $32/bag price	Cost Endosight® Pass(es)	PER ACRE gain
1st Pass	0.8	1.67	$53.44	$2.88	$50.56
2nd Pass	0.6	1.25	$40.00	$2.88	$37.12
Both Passes	2.6	5.42	$173.44	$5.76	$167.68

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In 2025, Endosight® nanotech adjuvant was studied with fungicide applications on sugar beets. These spray passes are critical as fungal pressure can radically reduce yields in this crop. This test shows Endosight® improves intake of the fungicide spray applications, enhances the application, and substantially improves profitability.

2025 Sugar Beet Trial- Michigan

	Six Fungicide passes w/ Boron and N Demand	Endosight added @ 6oz. / acre to each pass
Trial Weight Avg. (lbs)	29450	30720
RWST Samples	336.44	355.26
	334.77	360.70
	320.30	357.20
	355.50	337.79
Avg. RWST	336.75	352.74
Weight / Acre	73259	76418
Tonnage / Acre	36.629	38.209
Lbs. RWSA	12335	13478

PLOT SIZE: 1196' x 14.67' = 0.402 ACRES

	RWSA	MSC Payment / lbs.	Crop Revenue	Endosight Cost 6passes @ 6oz. / Acre	PER ACRE gain
Control passes	12,335	$0.11	$1,356.85		$1,356.85
6oz. Endosight added	13,478	$0.11	$1,482.55	$24.75	$1,457.80
				Endosight ROI	$100.95

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