



WASHINGTON STATE UNIVERSITY
EXTENSION

Esser, A.D. 2024. **WA Oilseed Commission funded projects.**

PNW Canola Association Workshop, Moscow, ID. January 25.



Pacific northwest Herbicide Resistance Initiative (PNWHR)



Thank you

Thank you to Washington Oilseed
Commission for all their help and
support!

STOCKOSORB® to Improve Winter Canola Stand Establishment and Yield



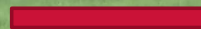
TRT	10 DAP (plants/ft ²)	20 DAP (plants/ft ²)	30 DAP (plants/ft ²)	Yield (lb/ac)
Check	3.3	4.1	4.5	1,558
STOCKOSORB	3.5	3.4	4.1	1,459
Lev of Sign	n.s.	n.s.	n.s.	n.s.

-3 years of data with early and late planting on the last 2 years





Long-Term Rotation Study at Wilke



- Initiated in 2014
- plots 200' x 25'
- 4 replications

- Treatment crops
- Continuous WW
- Spring Wheat



Long-Term Rotation Study at Wilke 2014 - 2019



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TRT	TRT Yield (lbs/ac)	WW Yield (bu/ac)	SC Yield (lbs/ac)	Trt ROC (\$/ac)	Combined ROC (\$/ac)
Canola	1,014 b	46 b	39 ab	48 b	236 c
Chickpea	963 b	50 a	38 b	97 a	305 a
Wheat	2,134 a	44 c	40 a	99 a	278 b
LSD ($P>0.05$)	105	2	2	n.s.	20

- Chickpea Ave \$22.9/CWT, Canola Ave \$15.9/CWT





Economic return over cost of spring canola over chickpea at a given market price, including rotational benefits .

		Canola Price (cwt)															
		15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Chickpea Price (cwt)	15	-12	-2	8	18	28	38	48	59	69	79	89	99	109	119	130	140
	16	-22	-12	-2	8	19	29	39	49	59	69	79	90	100	110	120	130
	17	-32	-21	-11	-1	9	19	29	39	50	60	70	80	90	100	110	120
	18	-41	-31	-21	-11	-1	9	20	30	40	50	60	70	80	91	101	111
	19	-51	-41	-31	-20	-10	0	10	20	30	40	51	61	71	81	91	101
	20	-61	-50	-40	-30	-20	-10	0	10	21	31	41	51	61	71	81	92
	21	-70	-60	-50	-40	-30	-19	-9	1	11	21	31	41	52	62	72	82
	22	-80	-70	-59	-49	-39	-29	-19	-9	1	12	22	32	42	52	62	72
	23	-89	-79	-69	-59	-49	-39	-29	-18	-8	2	12	22	32	42	53	63
	24	-99	-89	-79	-69	-58	-48	-38	-28	-18	-8	2	13	23	33	43	53
	25	-109	-99	-88	-78	-68	-58	-48	-38	-28	-17	-7	3	13	23	33	43
	26	-118	-108	-98	-88	-78	-68	-57	-47	-37	-27	-17	-7	3	14	24	34
	27	-128	-118	-108	-97	-87	-77	-67	-57	-47	-37	-27	-16	-6	4	14	24
	28	-138	-127	-117	-107	-97	-87	-77	-67	-56	-46	-36	-26	-16	-6	4	15
	29	-147	-137	-127	-117	-107	-96	-86	-76	-66	-56	-46	-36	-25	-15	-5	5
	30	-157	-147	-137	-126	-116	-106	-96	-86	-76	-66	-55	-45	-35	-25	-15	-5
Canola yield 1,014/ lb/ac							Chick pea yield 963 lb/ac					LSD (P>0.05) = 20					

Mycorrhizal Application to Enhance Spring wheat Following Winter Canola



3-year data set (2021-23) summary at WSU Wilke. RCBD w 4 reps each year.

TRT	Wheat	Canola	AVE
	----- (bu/ac) -----		
Check	63.8	36.6	50.2
Mycro-Apply	63.1	38.6	50.9
Myco-Gold	64.3	38.3	51.3
<i>P</i> value	0.870	0.512	0.790



Questions

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