

Pratum Co-op RESEARCH



Update on SSGWO Funded
Trials in Chicory

KYLE ROERIG
RESEARCH
AGRONOMIST



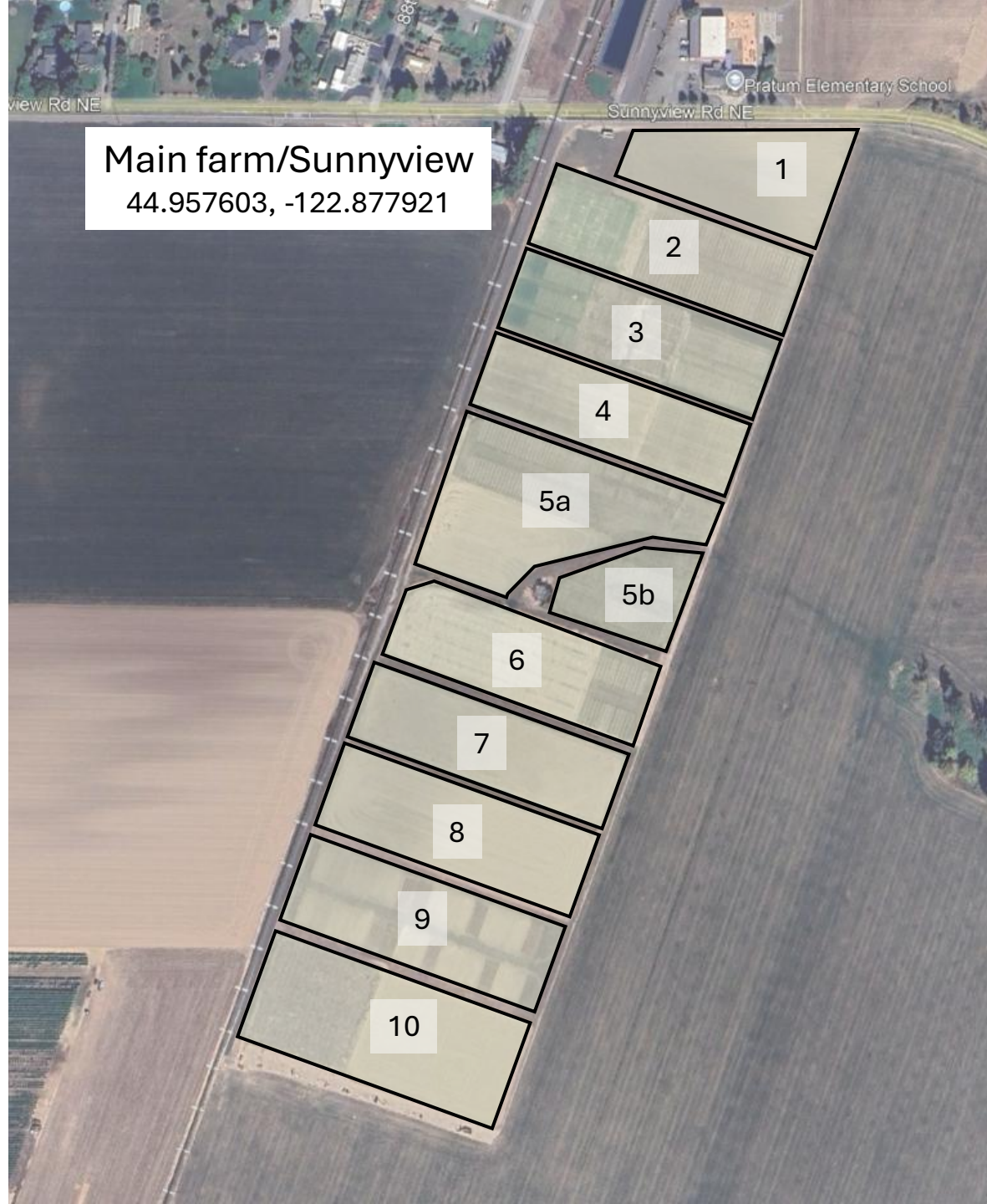
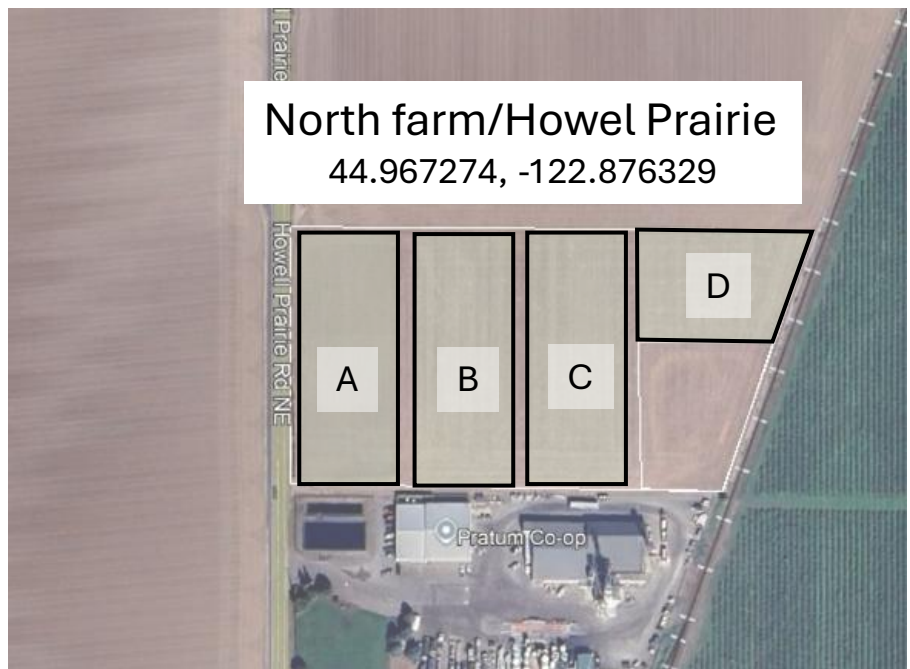


Current chicory herbicides

- Clethodim – Select
 - Grass control
- Sethoxydim – Post (manufacture discontinuing)
- Imazamox – Raptor
 - Grass and broadleaf weed control, 4 oz/a. Maximum 3” weeds.
- Triflusaluron – Upbeet
 - Broadleaf weed control, 0.5 oz/a, 1.5 oz/a max season total. Applications 5-10 days apart.
- Trifluralin – Treflan
 - Pre-plant incorporated. Label wording unclear (root vs. leaf).

Experimental herbicide treatments applied to chicory grown for seed

Treatment	Formulation		Description	Rate	Application	
	Conc	Type			Code	Description
untreated						
pyrooxasulfone		4.17 SC	Zidua	3 oz/a	A	Pre
simazine		4 L	Simazine 4L	2 qt/a	A	Pre
flumetsulam		0.8 WDG	Python	0.66 oz/a	A	Pre
pyrooxasulfone		4.17 SC	Zidua	3 oz/a	B	2 leaf
flumetsulam		0.8 WDG	Python	1.33 oz/a	C	4-8 leaf
+ NIS		100 L		0.25 % v/v	C	4-8 leaf
bentazon		4 EC	Basagran	2 pt/a	C	4-8 leaf
+ COC		100 L		1 % v/v	C	4-8 leaf
+ UAN		32 L		1 qt/a	C	4-8 leaf
bromoxynil		2 EC	Brox 2EC	1 pt/a	C	4-8 leaf
+ NIS		100 L		0.25 % v/v	C	4-8 leaf
metribuzin		75 DF	Metrior	1 lb/a	C	4-8 leaf
+ NIS		100 L		0.25 % v/v	C	4-8 leaf
paraquat		3 SL	Gramoxone	1.3 pt/a	C	4-8 leaf
+ NIS		100 L		0.25 % v/v	C	4-8 leaf
EPTC		7 L	Eptam	3 pt/a	C	4-8 leaf
pronamide		3.3 SC	Kerb	5 pt/a	C	4-8 leaf
MCPA		4 EC	MCP Amine 4	0.5 pt/a	C	4-8 leaf
+ NIS		100 L		0.25 % v/v	C	4-8 leaf
asulam		3.34 L	Asulox	3 pt/a	C	4-8 leaf
+ NIS		100 L		0.25 % v/v	C	4-8 leaf



Chicory planting and spray timing



Crop Description

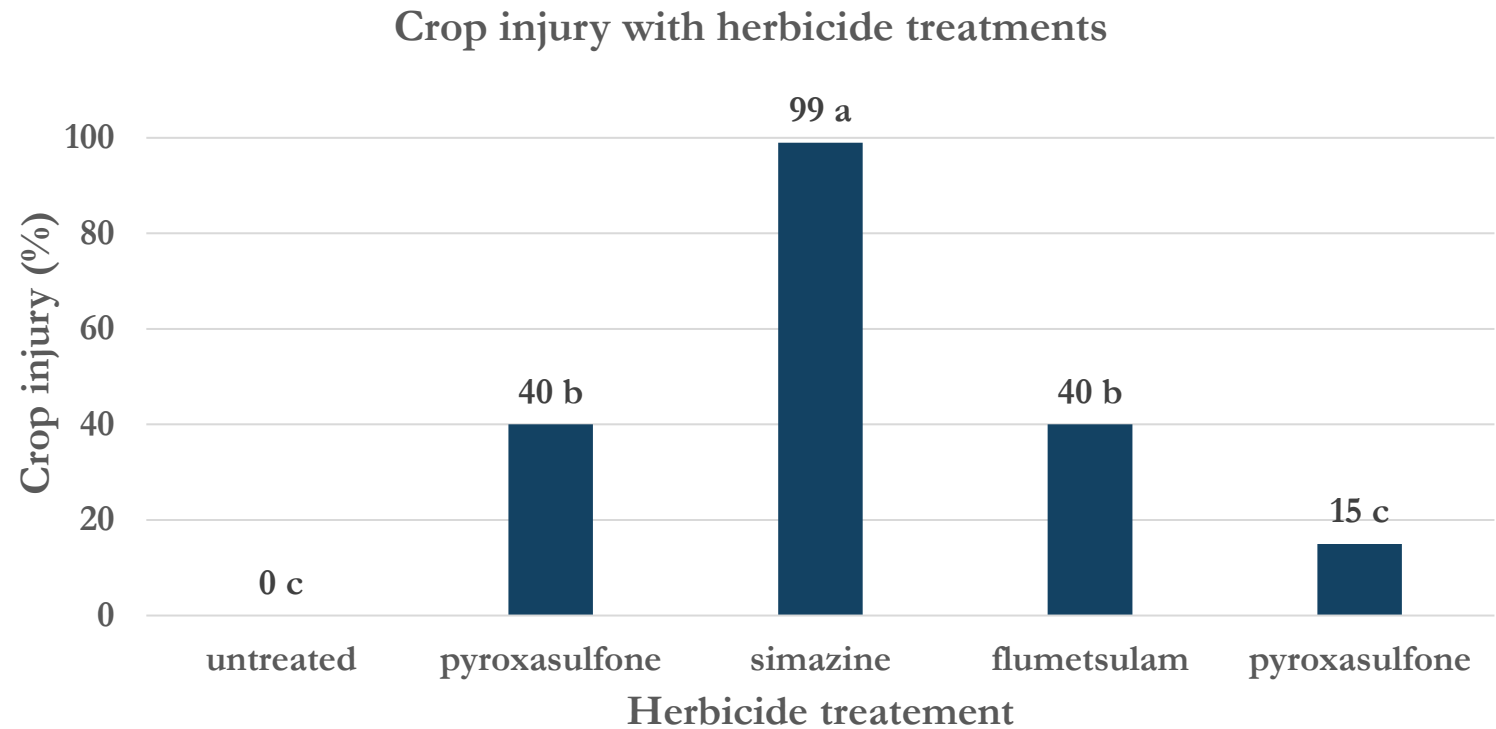
Crop	Chicory
Planting Date	9/24/2024
Planting Rate	7.8 lb/a

Soil	Willamette silt loam
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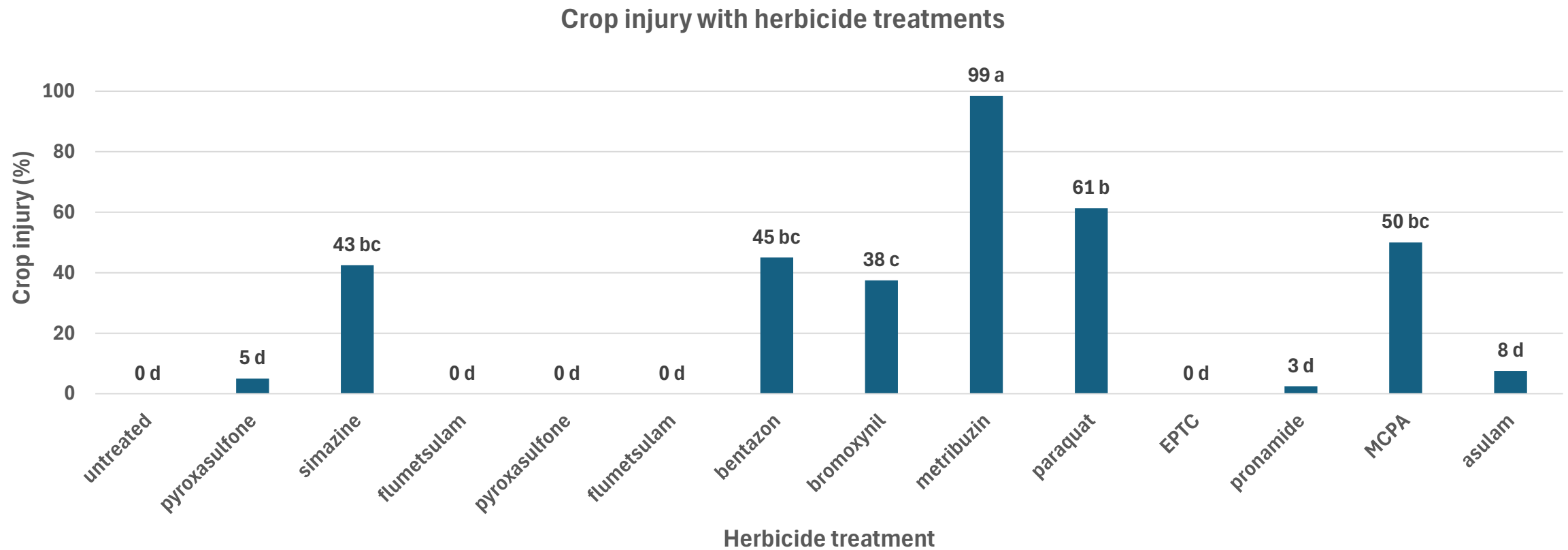
Application Description

	A	B	C
Date	9/24/2024	1/13/2025	3/7/2025
Start Time	2:00 PM	10:00 AM	7:30 AM
Stop Time	2:45 PM	10:10 AM	9:00 AM
Entry Date	5/28/2025	5/28/2025	5/28/2025
Air Temperature	83 F	37 F	47 F
Relative Humidity	51%	92%	76%
Wind	0 MPH,	0 MPH,	6 MPH, S
Wind max			7 MPH, -
Wet Leaves (Y/N)		Y, yes	Y, yes
Soil Temperature	83 F		44 F
Soil Moisture	Dry	Wet	Moist
Soil Surface	Dusty		
% Cloud Cover	0	100	15
Crop stage	Pre	2-3 leaf	6-8 leaf

Visual evaluation of chicory, March 6, 2025



Visual evaluation of chicory, May 30, 2025

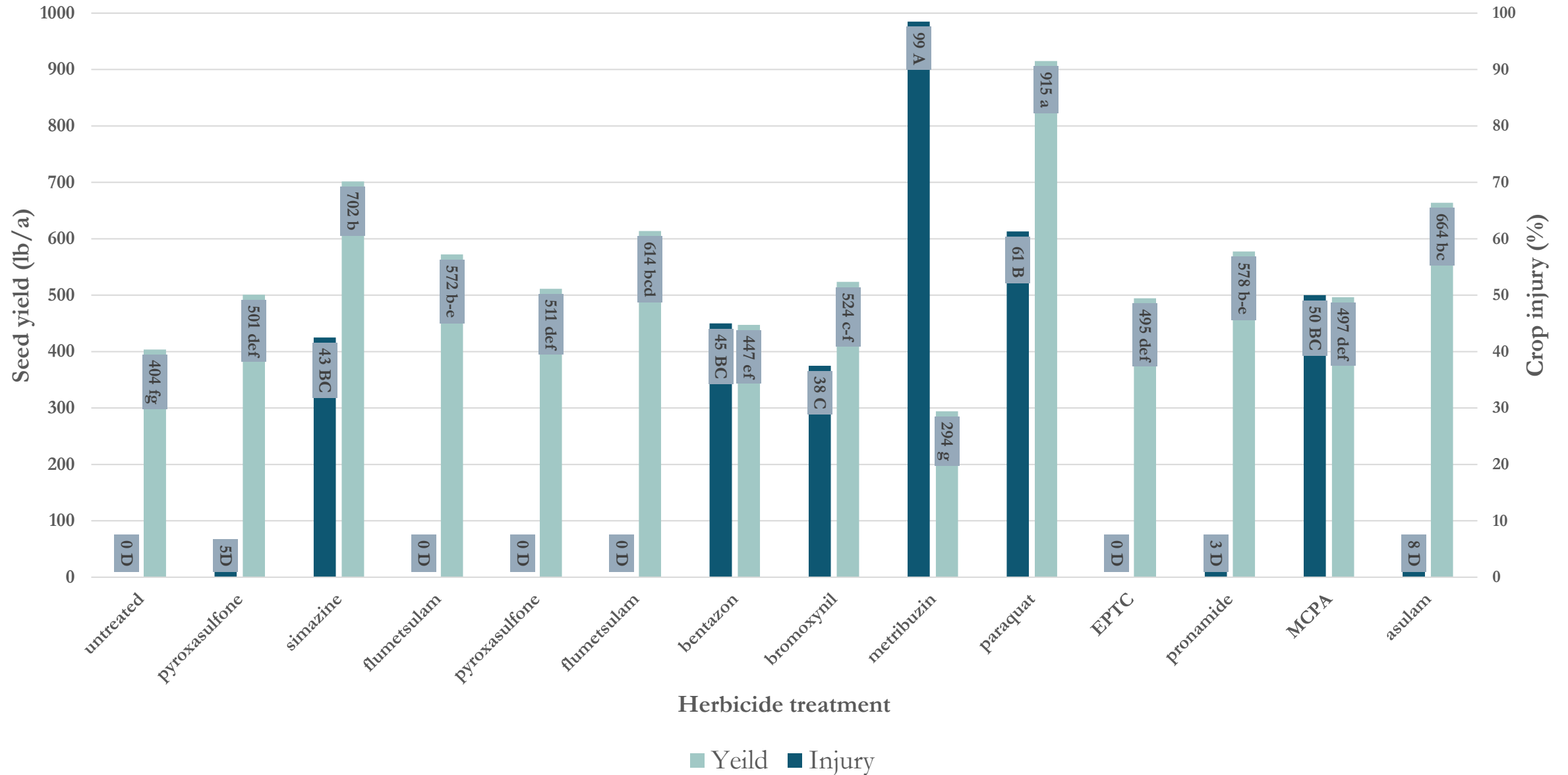


Means followed by the same letter do not differ (at p-value 0.05)





Seed yield and crop injury of chicory with experimental herbicide treatments



Means followed by the same letter do not differ (at p-value 0.05)



Untreated



Hand weeded check



Untreated



Pyroxasulfone *pre*



Untreated



Simazine *pre*



Untreated



Flumetsulam *pre*



Untreated



Pyroxasulfone *2 leaf*



Untreated



Paraquat *5-7 leaf (4DAT)*

Conclusions

- A small number of herbicides are labeled for chicory
 - Weed control is problematic with current herbicides
- Evaluated 11 herbicides evaluated for crop safety in chicory
- Substantial injury resulting from simazine, metribuzin, and paraquat
- Several treatments significantly higher yield
- Paraquat injury 61%, yield 2.25 *times* greater than untreated
- Herbicides being evaluated in 2026

KYLE ROEIG | 503-537-8404 | kroerig@pratumcoop.com

