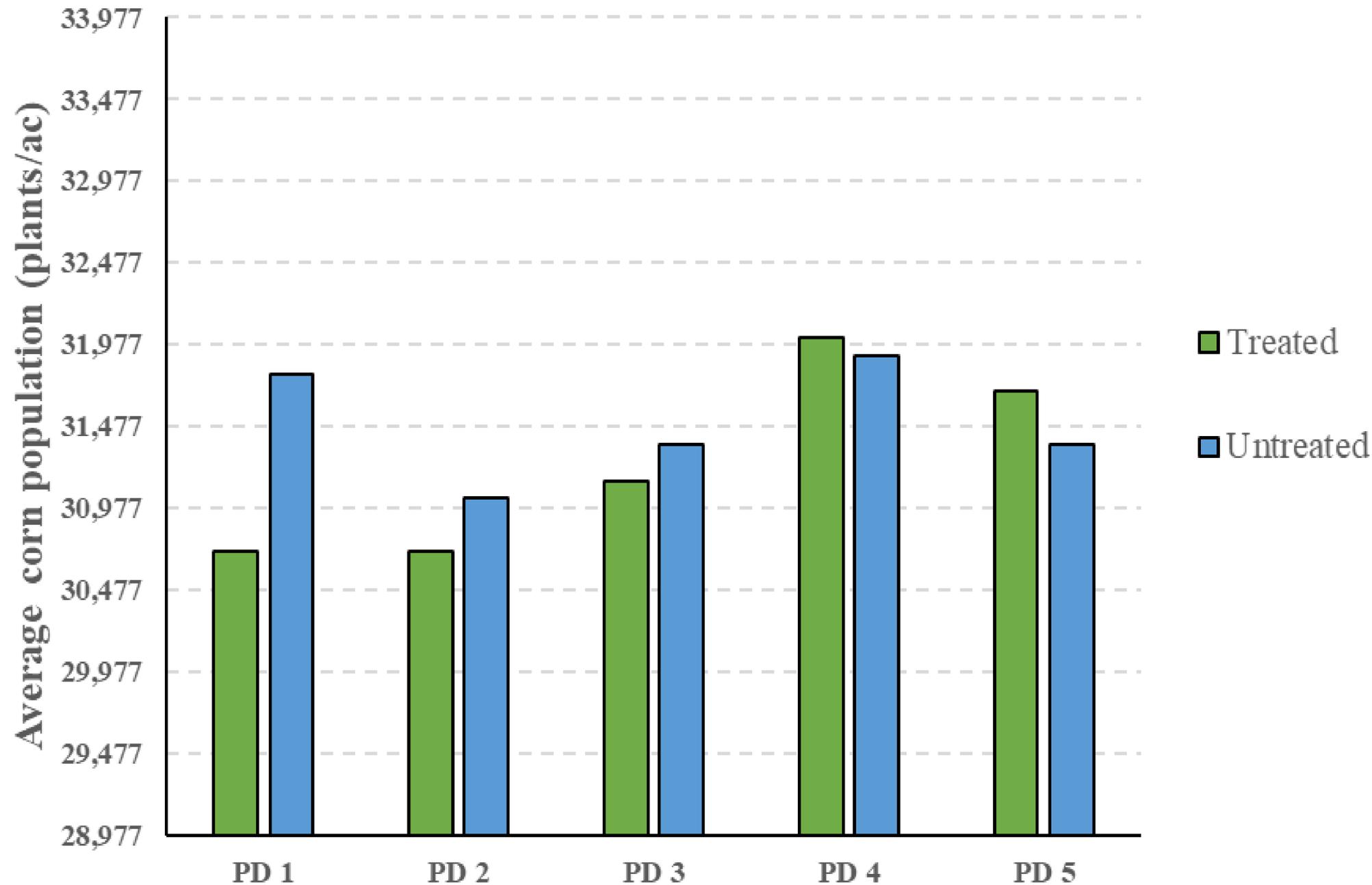


# Corn seedling damage assessment and pest scouting for neonicotinoid treated and untreated seed, Alburgh VT, 2023.



Planting Date	Germination Date	
PD1	5/10/2023	5/20/2023
PD2	5/16/2023	5/26/2023
PD3	5/26/2023	6/2/2023
PD4	6/1/2023	6/6/2023
PD5	6/9/2023	6/16/2023

Plots: 10' x 20'  
39 seeds per row  
Target population: 33,977 plants/acre

No significant differences seen across treated and untreated seeds within planting dates.

PD1 Treated seed has the lowest population, yet is still ~90% of the target population.

PD4 Treated was the highest population at ~94% of the target population.

# Frequency and concentration of clothianidin at different soil depths prior to corn planting, St. Albans, VT, 2022.

Watershed	<i>0 - 2.5 in.</i>		<i>2.5 - 6 in.</i>	
	Detects <sup>†</sup>	Average concentration <sup>‡</sup>	Detects	Average concentration
	%	ppb	%	ppb
1	100	3.7	37.5	4.9
2	75	4.2	50	4.4

Soil type: Covington clay, poorly drained.

Crop history:  
3<sup>rd</sup> year of corn silage with cover crop

Historic use of neonicotinoid treated seed

Previous crop- alfalfa

<sup>†</sup> The number of samples with concentration greater than reporting limit (2.0 ug/kg or ppb) divided by total number of samples (n=8), reported as a percentage of samples where analyte was detected.

<sup>‡</sup> Average concentration of samples where concentration was greater than reporting limit.



# Frequency and concentration of clothianidin at different soil depths prior to corn planting, Alburgh, VT, 2022.

Soil type: Benson rocky silt loam, over shaly limestone

Crop history: No historic use of neonicotinoid seed treatments  
Previous crops include hemp grain & fiber, summer annuals, milkweed

	<i>0 - 2.5 in.</i>		<i>2.5 - 6 in.</i>	
	Detects <sup>†</sup>	Average concentration <sup>‡</sup>	Detects	Average concentration
	%	ppb	%	ppb
Pre-plant (9-May)	0	n/a	75	6.0

<sup>†</sup> The number of samples with concentration greater than reporting limit (2.0 ug/kg or ppb) divided by total number of samples (n=4), reported as a percentage of samples where analyte was detected.

<sup>‡</sup> Average concentration of samples where concentration was greater than reporting limit.

