



675 Central Drive Skyway Industrial Park Presque Isle Maine 04769 207-768-0781

Oro Agri Prev Am Impact on Viral Seed Testing

This is an evaluation of Oro Agri Prev Am Impact on Postharvest virus levels as conducted by the State of Maine Seed Potato Certification Laboratory for 2021 and 2022.

Prev Am Grower is a grower that has used Prev Am in their program multiple times.

Non-Prev Am Grower is a grower that does not use Prev Am at all.

Data Collected The post-harvest data was evaluated in the following manner:

Variety comparison: Prev Am growers were compared to the total average virus levels for the whole variety.

Grower comparison: Prev Am growers were compared to non Prevam growers within a variety when there is more than one grower in each variety.

Results

Variety Comparison

- Variety 1 Better results with the addition of Prev Am
- Variety 2 No Better results with the addition of Prev Am
- Variety 3 Better results with the addition of Prev Am
- Variety 4 Better results with the addition of Prev Am
- Variety 5 Better results with the addition of Prev Am
- Variety 6 Better results with the addition of Prev Am
- Variety 7 Better results with the addition of Prev Am
- Variety 8 Better results with the addition of Prev Am
- Variety 9 Better results with the addition of Prev Am
- Variety 10 Better results with the addition of Prev Am
- Variety 11 No Better results with the addition of Prev Am
- Variety 12 Better results with the addition of Prev Am

Variety Comparison:

Prev Am Grower lowered their viral results in 83% of the varieties evaluated.



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Grower Comparison

Grower Comparison Variety 1 Prev Am Growers were better than 100% of other growers in the variety
Grower Comparison Variety 2 Prev Am Growers no difference compared to other growers in variety
Grower Comparison Variety 3 Prev Am Growers no difference compared to other growers in variety
Grower Comparison Variety 4 Prev Am Growers were better than 100% of other growers in the variety
Grower Comparison Variety 5 Prev Am Growers were better than 84% of other growers in the variety
Grower Comparison Variety 6 Prev Am Growers were better than 100% of other growers in the variety
Grower Comparison Variety 7 Prev Am Growers were better than 100% of other growers in the variety
Grower Comparison Variety 8 Prev Am Growers were better than 100% of other growers in the variety
Grower Comparison Variety 9 Prev Am Growers were better than 89% of other growers in the variety
Grower Comparison Variety 10 Prev Am Growers were better than 89% of other growers in the variety
Grower Comparison Variety 11 Prev Am Growers were better than 80% of other growers in the variety
Grower Comparison Variety 12 Prev Am Growers were better than 66% of other growers in the variety

Conclusion:

Prev Am Growers are better than other growers in a variety 10 out of 12 times.

Prev Am Growers are better than 100% (all) other growers in a variety 5 out of 12 times.

Prev Am Growers are better than 80 % of the other growers in 9 out of 12 times.

Adding Prev Am to your program:

- Improves aphid control
- Decreases virus load
- Improves grower performance with in variety
- Improves grower performance compared to not using Prev Am

Certain assumptions are made in this evaluation.

- The presence of virus indicates the presence of aphids.
- In this evaluation, data that showed no virus were not considered in calculating averages regardless of grower.
- Only data that had more than one grower in a variety were used for comparison.
- If only one grower in a variety is present or no Prev Am grower present in a variety the data was not considered.
- Each year was considered separately but differences observed in each year were then combined.
- There are no assumptions about the viral testing procedures or results other than that all samples were treated and tested using the same analysis.
- In an effort to respect growers' confidentiality and given the relatively low number of growers and varieties that can be used in this comparison the varieties and growers are referred to only as numbers.