

ARINO™

INSECTICIDE/NEMATICIDE

POWERED BY **RINOTEC™** TECHNOLOGY

START STRONG

Arino™ is a novel, liquid insecticide/nematicide, powered by RinoTec™ Technology that can help your crop get off to a strong start. This new technology aids in the management of nematodes and wireworms in potatoes, onions, and mint. Applied in-furrow at planting time, Arino is easy to work with and compatible with a wide range of fertilizers and crop protection products.

Five years of field testing by universities and independent researchers have helped define and validate Arino's value to growers looking for uncompromising efficacy, flexibility, and freedom to farm. Arino™ is exempt from residue tolerances and has **established MRL's for export**, ensuring that your crop finishes as strong as it starts.

BENEFITS:

- **Maximizes** yield potential
- **Activity** on nematodes, wireworms, and white grubs
- **Compatible** with fertilizers and other crop protection products
- **Complimentary** fit in soil pest rotational programs
- **Easy to Use:** Liquid, in-furrow, applied at planting
- **Freedom to Farm:** Minimal PPE, 4-hr REI, established MRLs
- **Family and Employee Focused:** Control you expect with the safety profile you demand
- **Supports** food processor and packer/shipper sustainability goals

SPECTRUM OF ACTIVITY



Columbia Root Knot Nematode -
Meloidogyne chitwoodi



Northern Root Knot Nematode -
Meloidogyne hapla



Lesion Nematode -
Pratylenchus spp.



Wireworm - Larvae within the
Elateridae family



White Grub - Larvae within the
Scarabaeidae family

TECHNICAL & REGULATORY PROFILE

Active:	RinoTec™ Technology
Mode of Action:	Arino works through ingestion, feeding site disruption, and repellency.
IRAC:	UNB - Bacterial Agents (Non-Bt) of Unknown or Uncertain MOA
Formulation:	Liquid
Translocation:	RinoTec™ Technology is absorbed and translocated locally within the developing root system creating a protective zone in and around the roots.
REI:	4-Hours
PPE:	Minimal
PHI:	0-Day
Use Rate:	20 fl oz/ac

HOW ARINO WORKS:

When Arino is applied in-furrow, it loosely binds to soil particles. The material is then gradually released into the soil solution and absorbed by the roots, translocating locally in the developing root system.

Its persistence in soil and roots provides sustained protection by eliciting a powerful plant-based reaction that repels soil-borne insects and nematodes, creating a zone of protection around the young seedlings.

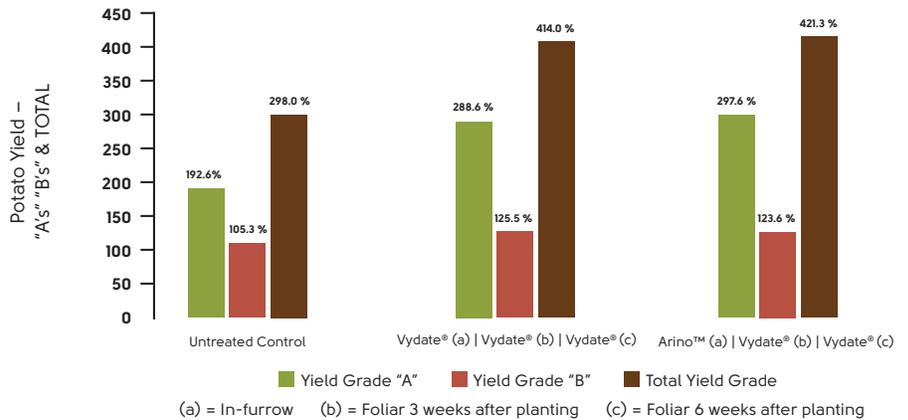
ARINO COMPLIMENTS EXISTING SPRAY PROGRAMS

When Arino replaces the first insecticide/nematicide treatment of a potato IPM program, yield results were equal to or better than the grower standard.

Arino helps farmers reduce their overall spray program's environmental load without compromising on yield, quality, or expense.

ARINO™ vs. GROWER STANDARD FOR YIELD

Mid Michigan Agronomy, 2023



TREATMENTS Planting Date: April 28, 2023			
Treatment	a	b	c
Timing	At Planting	3 Weeks After Planting	6 Weeks After Planting
Application	In-Furrow	Foliar	Foliar
Rate	Vydate: 1 qt./A Arino: 20 fl. oz./A	Vydate: 1 qt./A	Vydate: 1 qt./A

BEST USE GUIDELINES:

- Apply in-furrow at planting
- Use Rate: 20 fl. oz./A
- Follow up with an alternative mode of action 14-21 days after planting
- Pack Size: 2 x 2.5 gal

ARINO FERTILIZER COMPATIBILITY

28-0-0
11-0-0
10-34-0
6-24-6
8-0-0-9

WORKER SAFETY

Arino carries the EPA signal word "Caution" due to its low toxicological profile. Always read and follow all label instructions for safe handling, including requirements for personal protective equipment (PPE), restricted-entry intervals (REI), and preharvest intervals (PHI).

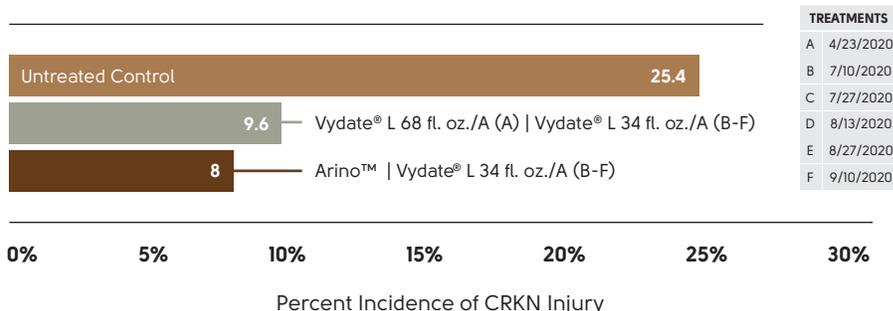
EFFICACY RESULTS

ARINO™ vs. GROWER STANDARD FOR COLUMBIA ROOT KNOT NEMATODE

17% Less CRKN Incidence than Vydate Alone

Hubbard Ag. Science, Connell, WA, 2020 • Variety: Ranger Russet

PLANTING DATE:
4/23/2020



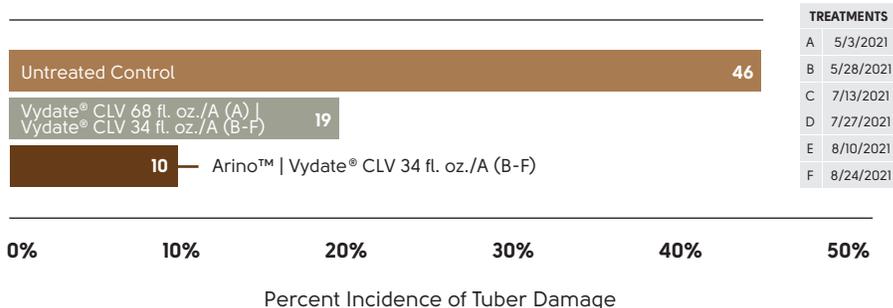
TREATMENTS
A 4/23/2020
B 7/10/2020
C 7/27/2020
D 8/13/2020
E 8/27/2020
F 9/10/2020

Arino™ vs. GROWER STANDARD FOR COLUMBIA ROOT KNOT NEMATODE

47% Less Damage from CRKN than with Vydate Alone

Ag. Development Group, Eltopia, WA, 2021 • Variety: Clearwater

PLANTING DATE:
5/3/2021



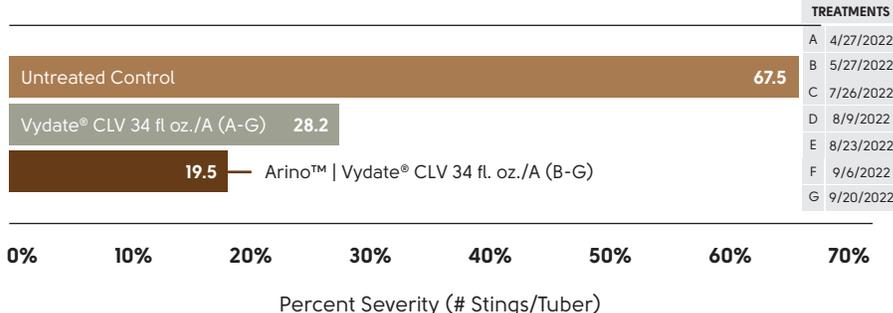
TREATMENTS
A 5/3/2021
B 5/28/2021
C 7/13/2021
D 7/27/2021
E 8/10/2021
F 8/24/2021

ARINO™ vs. GROWER STANDARD FOR COLUMBIA ROOT KNOT NEMATODE

31% Less CRKN Severity vs. Alternative Alone

Ag. Development Group, Eltopia, WA, 2022 • Variety: Russet Burbank

PLANTING DATE:
4/27/22



TREATMENTS
A 4/27/2022
B 5/27/2022
C 7/26/2022
D 8/9/2022
E 8/23/2022
F 9/6/2022
G 9/20/2022

***Use Rate: 20 fl. oz./A**

ACCESS ARINO INSECTICIDE/NEMATICIDE DATA, INFORMATION, LABELS AND SAFETY DATA SHEETS

Visit ProFarmGroup.com/Products/Arino

EPA GREEN CHEMISTRY CHALLENGE AWARDS

The EPA Office of Chemical Safety and Pollution Prevention along with the American Chemical Society Green Chemistry Institute® recognized the favorable toxicological profile of RinoTec™ Technology—the power inside Arino™.

The ProFarm Group remains committed to developing crop protection solutions that allow growers the freedom to farm today and for future generations.



POWERED BY
RINOTEC™

RinoTec™ Technology refers to the microorganism, whole fermentation solution, proprietary processes, patents and trade secrets that comprise ProFarm's latest insecticide/nematicide innovation.



1. Source: A Farm Guide to Nematode Diagnostics Management, Michigan State University https://www.canr.msu.edu/ent/uploads/files/George_Bird_bio_PDFs/Potato_nematodes.pdf

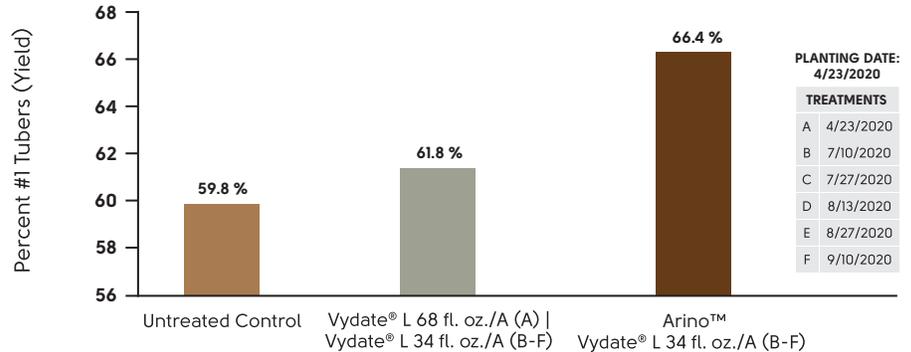
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YIELD RESULTS

ARINO™ vs. GROWER STANDARD FOR POTATO YIELD

7% More #1 Tubers than Vydate Alone

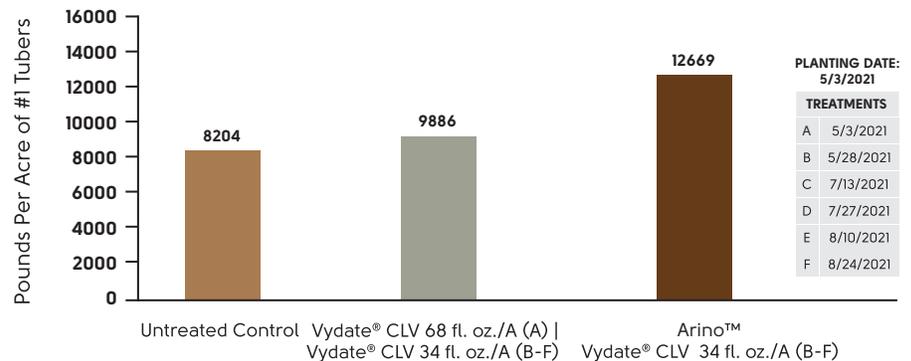
Hubbard Ag. Science, Connell, WA, 2020 • Variety: Ranger Russet



ARINO™ vs. GROWER STANDARD FOR POTATO YIELD

28% Higher Yield than with Vydate Alone for CRKN Control

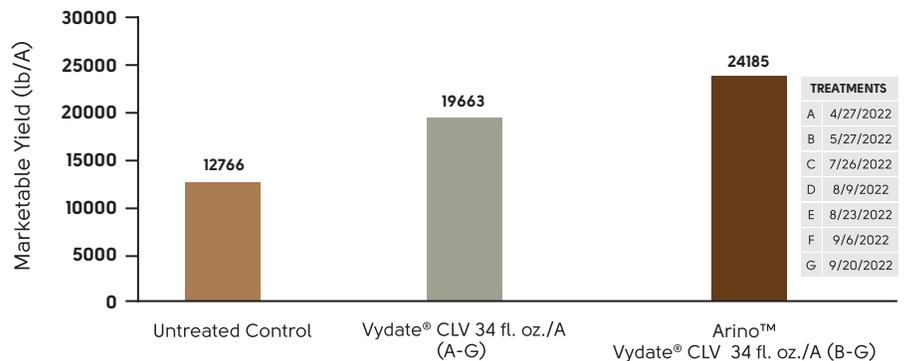
Ag. Development Group, Eltopia, WA, 2021 • Variety: Clearwater



ARINO™ vs. GROWER STANDARD FOR POTATO YIELD

4,522 More Pounds of Tubers Per Acre vs. Alternative Alone

Ag. Development Group, Eltopia, WA, 2022 • Variety: Russet Burbank



TALK TO A LOCAL EXPERT