



Myconate activates the native Mycorrhizae to:

- Increase Mycorrhizae activity and colonization
- Increase Nutrient uptake
- Develop an early symbiotic root relationship
- Increase total yield 3.5-5%
- Increase marketable yield

Performs well on:

- Metam Sodium or Chloropicrin fumigated soils

Easy to apply:

- Tuber Seed Treatment
- In Furrow at planting
- Broadcast applications

SYM-AGRO INC.

3326 W Mineral King, Visalia, CA 93291



Get your potatoes off to a healthier more vigorous start this season.





Myconate consistently improves tuber size and quality, for higher yielding potatoes.

Myconate activates the native mycorrhiza, enhancing early season root growth and more rapid colonization of the root system. Giving your crop a head start on the season and larger potatoes at harvest time.

WHAT IS Myconate?

Myconate contains isoflavone formononetin, a natural signaling compound. Myconate's formononetin has a well documented, unique mode of action that stimulates the colonization of mycorrhizal Fungi.

How Myconate Works

Formononetin increases the rate and extent of VAM (Vesicular-Arbuscular Mycorrhizal) fungi colonization. Spore germination, growth, direction and rate of VAM are affected. Most soils have an ample supply of mycorrhiza and Myconate facilitates their germination, drawing these beneficial spores to the roots effectively and rapidly.

In the root zone, the chemical signal causes an increase in the rate of fungal colonization as the potato crop's roots appear. The rapid colonization by mycorrhizal fungi gives you a larger, more effective root system, improving water and nutrient uptake and subsequent crop yield increases. This symbiotic relationship also has been shown to reduce early season diseases for healthier, more vigorous roots and bigger yields.

Does Myconate work on Fumigated soils?

Myconate can be most useful where mycorrhizal populations have been compromised. Field studies have determined that soils treated with Metam Sodium or Chloropicrin fumigants can have a reduced mycorrhizae population. It is difficult to eliminate the native VAM with these fumigants since the spores can remain viable in crop debris or be brought up by soil insects or earth worms. Due to the attractive effects of formononetin, it takes fewer

spores to work as well as or better than more spores. Myconate potato research has been conducted on Metam treated soils with positive results.

Do fungicides affect Mycorrhizae?

Certain fungicides can have a negative effect on mycorrhizae. Increasing the germination and activity of mycorrhizae can help overcome the suppressive effects of certain fungicides.

Can Myconate be applied directly onto tubers?

Myconate formulations are very inert, and have a pH@7 or neutral, are non-phytotoxic and can safely be applied directly onto tubers before or at planting. It can also be mixed with fungicides for a single treatment.

What are the benefits?

Myconate treatments in replicated trials have shown an average yield increase of 3.5-5% when applied at planting. Trial data also has shown early mycorrhizal colonization can reduce early season diseases such as rhizoctonia. **Myconate is cost effective and fits into your cultural practices.**

Use Recommendations

Application Timing: Apply Myconate to seed piece or at planting. This stimulates the Mycorrhiza in the root zone to germinate and colonize the roots as soon as they appear for improved early season vigor.

Seed Piece Treatment: Potato seed pieces can be treated prior to planting or at planting.

Prior to Planting: Apply 2-4 oz of Myconate AS per acre worth of seed pieces and store in cool dry place.

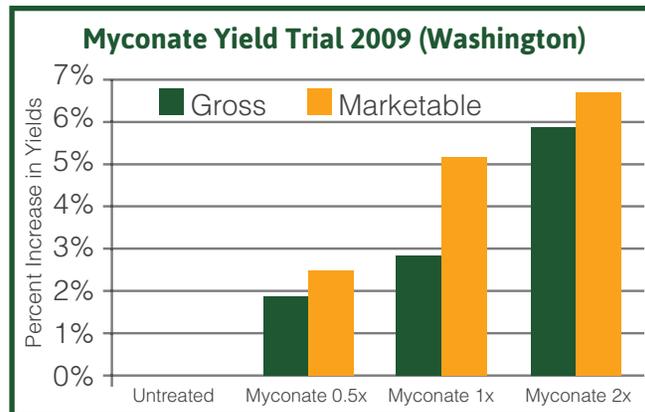
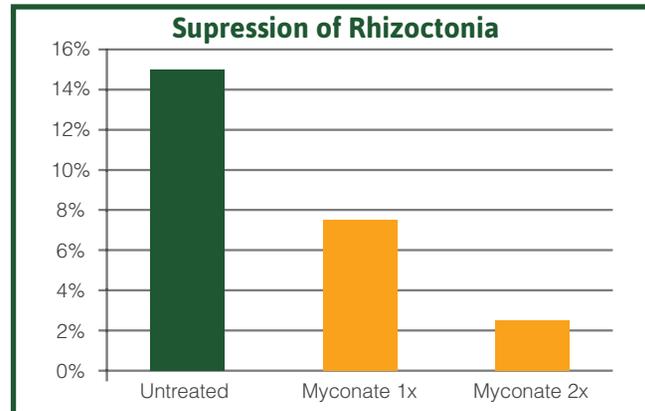
At Planting: apply 1-2 oz of Myconate HB directly coating seed pieces at time of planting.

In furrow Application: Apply 2-4 oz of Myconate AS in furrow alone or in combination with fertilizers, insecticides or other fungicides.

Fertilizer Application: Apply 2-4 oz of Myconate AS per acre mixed with liquid fertilizer or impregnated on dry fertilizer within 1 week of planting.

2011 Trial Location	Gross Crop Value		Increase in Value	Cost of Treatment	ROI
	Untreated	Myconate	Myconate	Myconate	Myconate
Moses Lake	\$ 4,573.55	\$ 4,808.11	\$ 234.56	\$15.00	15.6
Warden	\$ 3,973.91	\$ 4,028.68	\$ 54.78	\$15.00	3.7
Moses Lake	\$ 4,115.42	\$ 4,319.94	\$ 204.52	\$15.00	13.6
Quincy	\$ 3,288.84	\$ 3,544.21	\$ 255.37	\$24.40	10.5
Mean>	\$ 3,987.93	\$ 4,175.24	\$ 187.31	\$17.35	10.9

Myconate applied at 2 oz per acre worth of seed.



Ask your crop advisor how Myconate can benefit your potato crop or call Peter Bierma at 503-799-4551

For more information contact
Sym-Agro, Inc.
(541)-607-5097
www.sym-agro.com

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Sustainable solutions for agriculture.

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Myconate is a Registered Trademarks of Plant Health Care