

MUSTARD PRODUCTS



& TECHNOLOGIES



**MPT Mustard Products & Technologies Inc**

Website: [www.mptmustardproducts.com](http://www.mptmustardproducts.com)

Video Overview: [www.mptmustardproducts.com/technology/index.html](http://www.mptmustardproducts.com/technology/index.html)

## The Problem

- Nematodes and soil borne diseases that represent a significant hurdle to all areas of agriculture; with specific concern in fruit and vegetable crops.
- ~ 28% of US crop acreage is infested with nematodes at economically damaging levels.
- Traditional methods for controlling these pests and diseases has come under scrutiny, resulting in the heavy restriction or market withdrawal of many of these products.



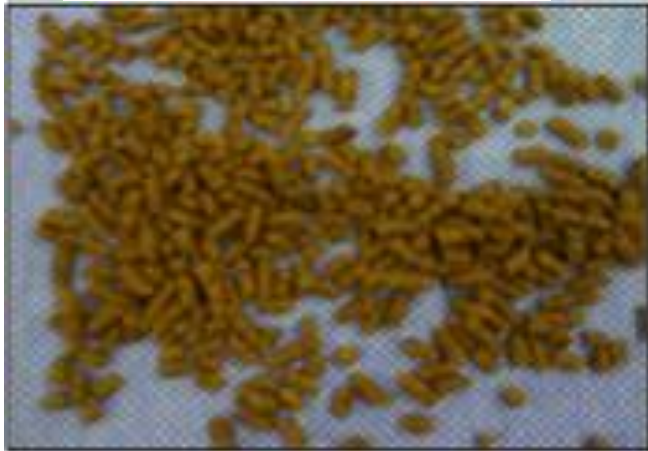
Severe root galling caused by root knot nematode



Heavy plant damage caused by nematodes and diseases

## The Solution

**MustGrow™**



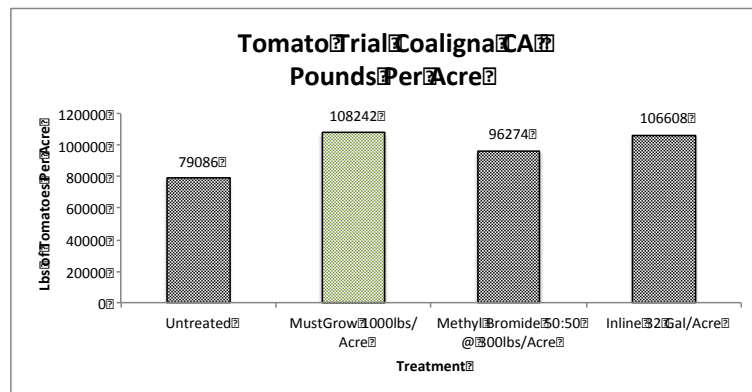
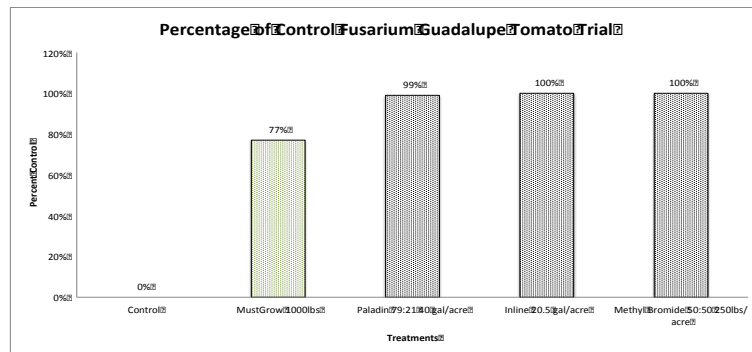
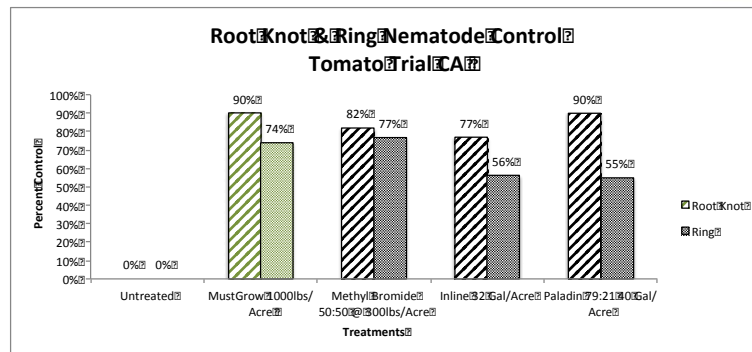
- MPT has a commercially available product line under the MustGrow™ brand that offers control and management of soil-borne nematodes and diseases
- The MustGrow™ product line is registered as a soil fumigant throughout North America for use in organic and conventional production
- The MustGrow™ product line is actively distributed through existing partners within North America
- MPT is developing a new disruptive technology platform that is showing very promising results in field trials



# MustGrow™ Performance



With MustGrow™



Without MustGrow™

## The Active

- MPT's patented technologies extract specific glucosinolates and enzymes from mustard seed and converts them into formulated soil fumigants
- In the presence of water, a hydrolysis reaction occurs and releases a degradation product *Allyl Isothiocyanate* (AITC), a volatile gas with nematicidal and fungicidal properties

## MustGrow™ Application

- MustGrow™ is a granular product that has been designed specifically to be applied using the same methods as applying pre-plant fertilizer



MustGrow™ broadcast application  
small scale



MustGrow™ & fertilizer application  
Commercial

# New Technology Platform

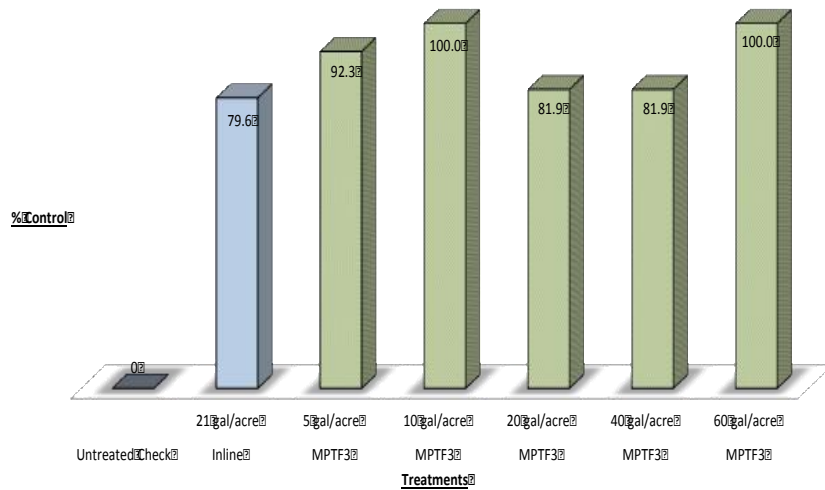


## New Technology Platform

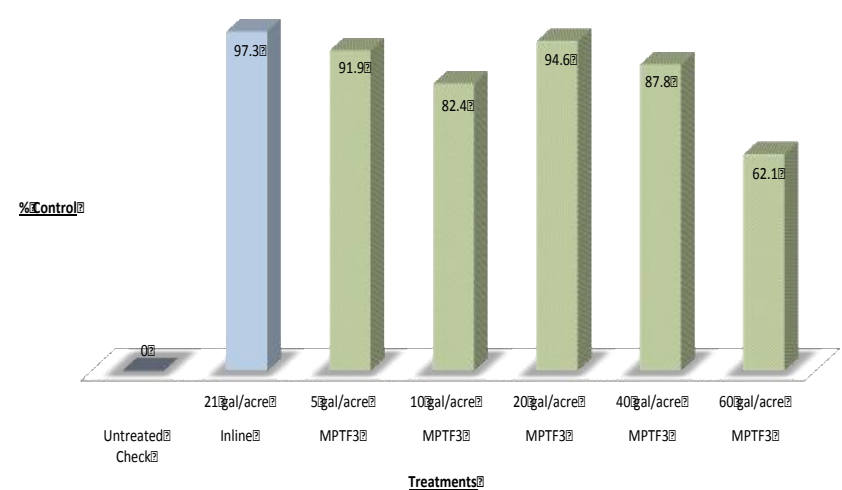


- MPT's new technology platform has advanced the core concept of MustGrow™ to an entirely new level
- It provides a liquid formulation that can be applied through spray, drip or shank methods
- It provides superior nematode and disease control at significantly lower application rates
- It has the potential to be applied as both a pre-plant and post plant treatment

Percentage of Control Root Knot Nematode



Percentage of Control Pythium



## About MPT

- Patented novel soil fumigants for the agriculture and turf industries
- Obtained regulatory approvals in the US and Canada
- Signed distribution agreements with current revenue
- Existing manufacturing facility producing quality assured products
- Extensive validation of product efficacy by 3<sup>rd</sup> party researchers & grower trials
  
- Actively developing new disruptive technology platforms
- Growing IP portfolio

## Opportunity – MPT Future Positioning

- Raised ~ \$4.2M through angel rounds to date
- Looking to secure an additional \$5 - \$7M in funding

### Use of Funds:

- Expand existing manufacturing facility to meet MustGrow™ product demand
- Sales, marketing and working capital to support MustGrow™ growth
- Continued development of disruptive technology platform





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