

Phytophthora Fungicides and the IR-4 Program

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Phytophthora drechsleri on Poinsettia

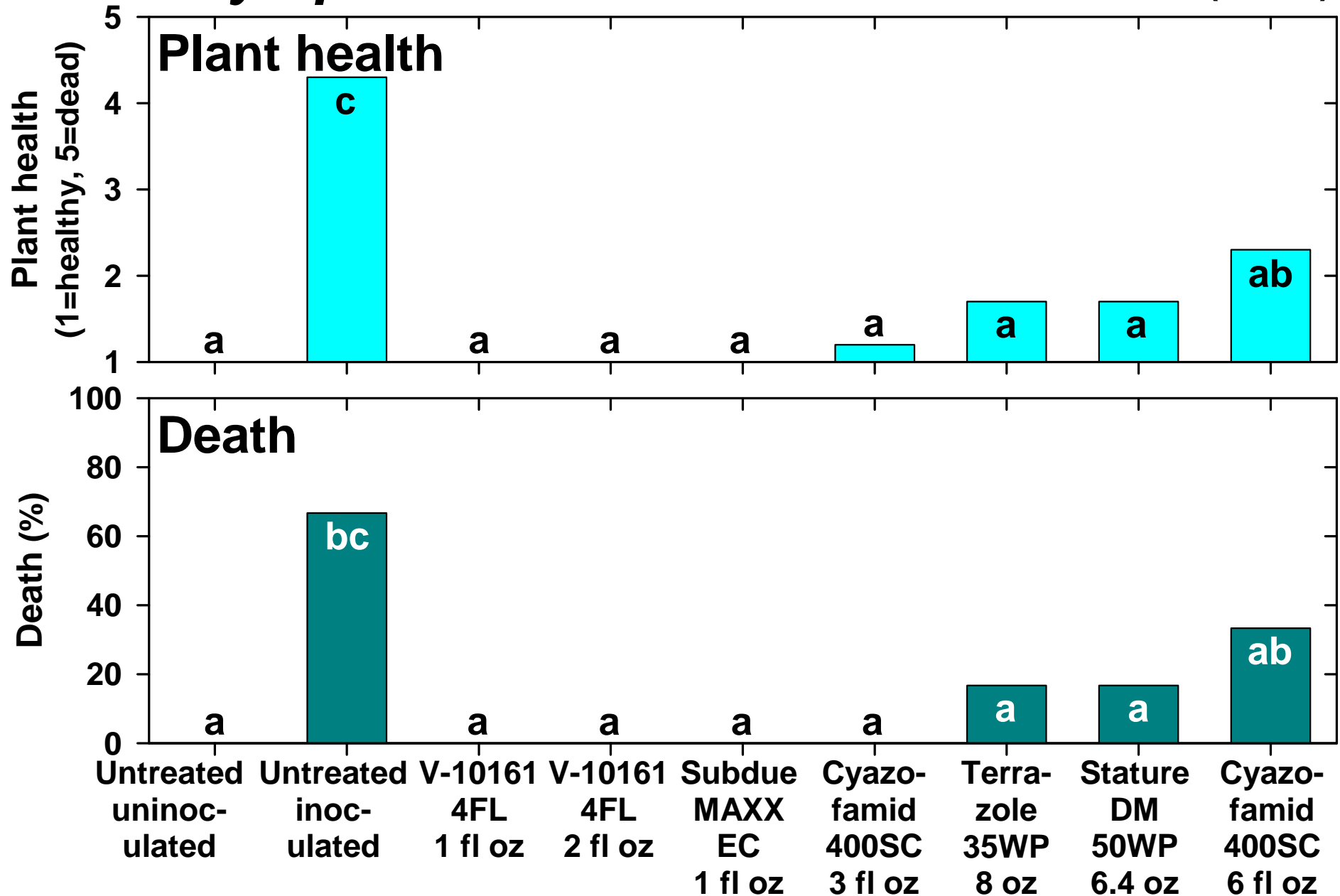
Products tested

- Alude
- Cyazofamid
- FenStop
- Heritage
- Insignia
- Stature
- Subdue MAXX
- Terrazole
- V-10161 4FL
- ZeroTol

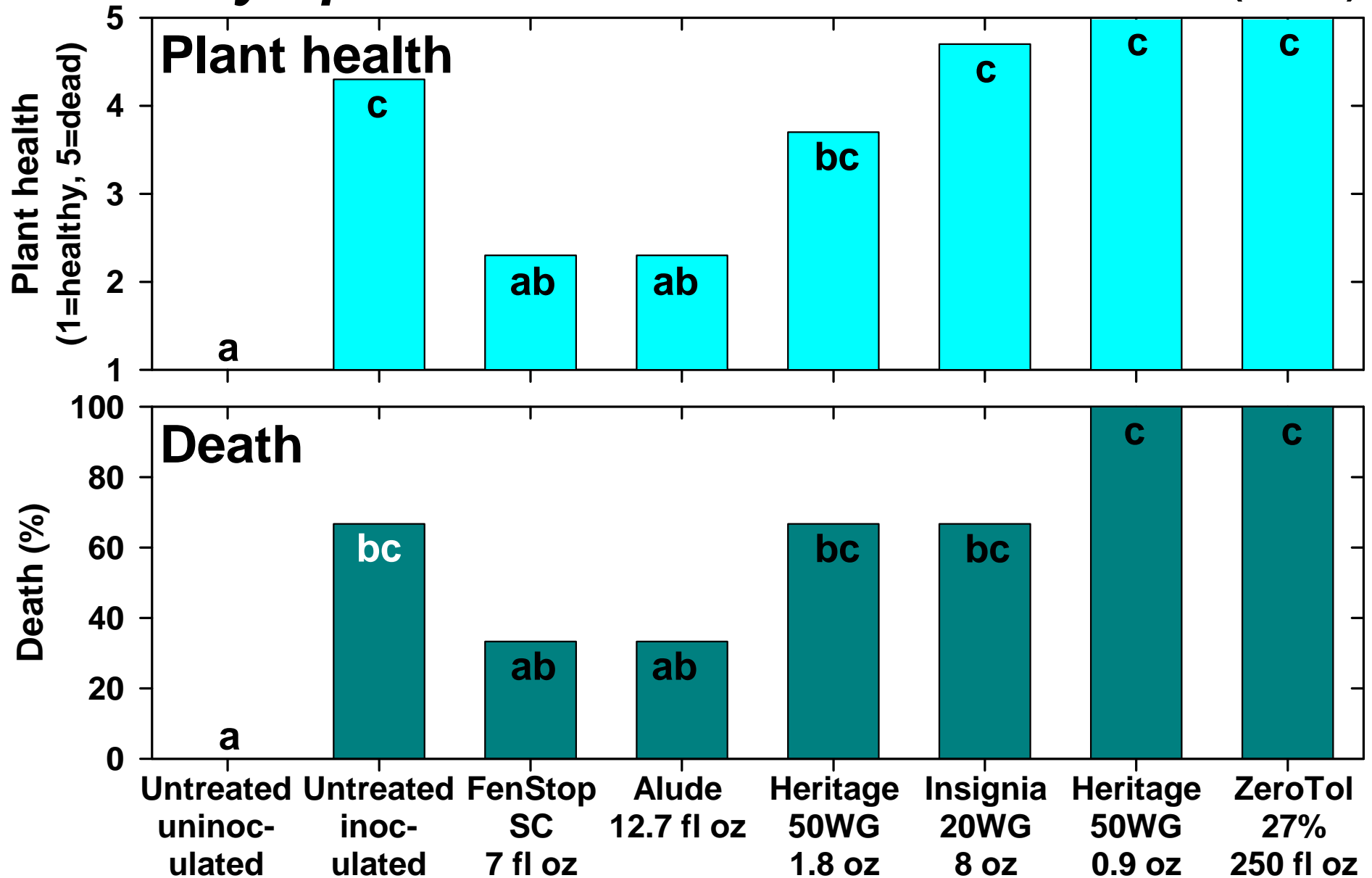
Phytophthora drechsleri on Poinsettia

- ‘Freedom Red’ cuttings in oasis cubes transplanted on 19 Jun, inoculated with two 1.2-cm agar plugs of *P. drechsleri* placed on oasis.
- 6 one-plant replicates in CRD.
- 200 ppm Peter’s 20-20-20 twice weekly.
- Treatments drenched 19 Jun (after transplant), 11,25 Jul.
- Plant health, death rated on 29 Jun, 18 Jul, 1 Aug.

Phytophthora drechsleri on Poinsettia (1 of 2)



Phytophthora drechsleri on Poinsettia (2 of 2)



Pythium aphanidermatum on Snapdragon

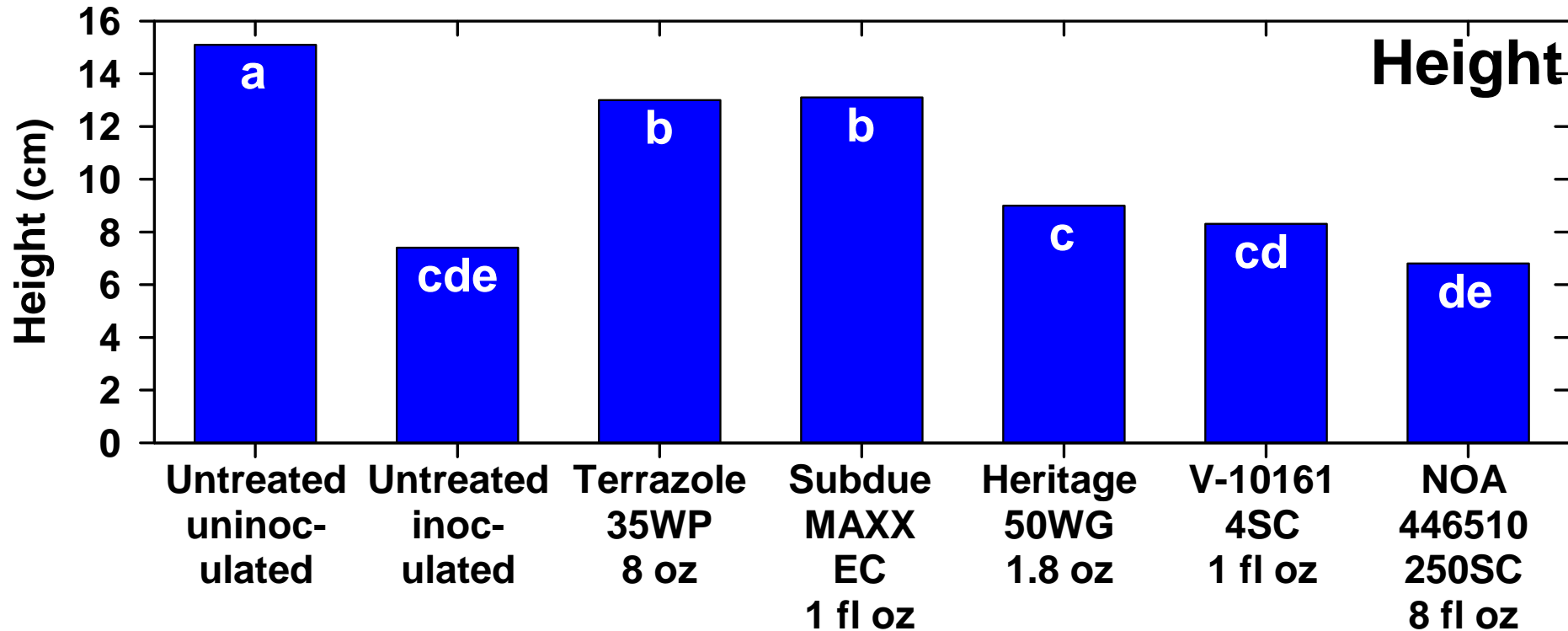
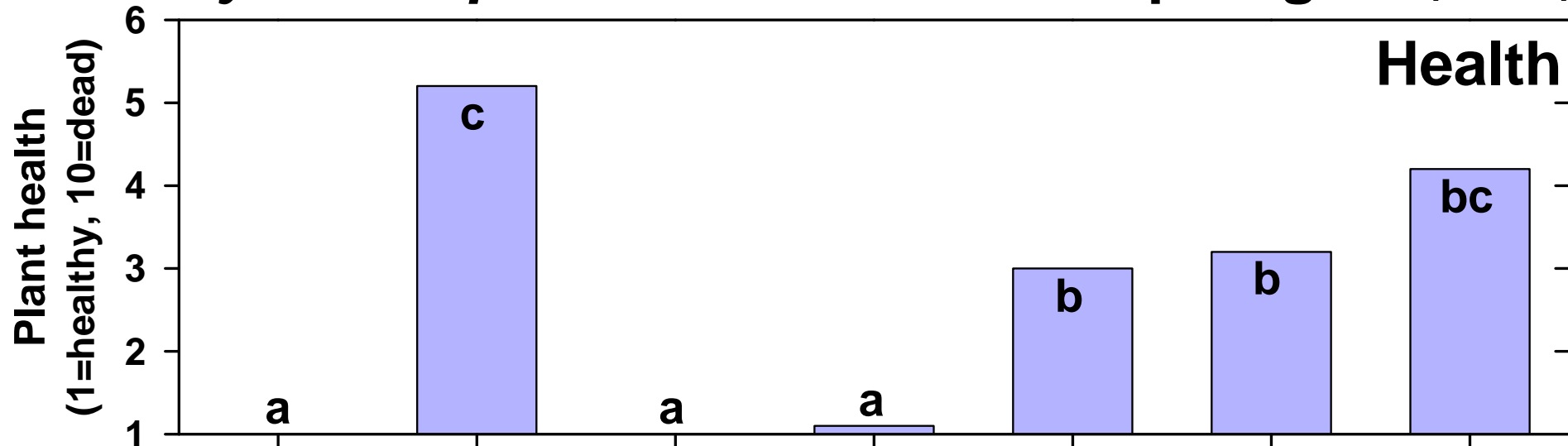
Products tested

- Heritage 50WG
- Hymexazol
- NOA 446510 250SC
- Subdue MAXX EC
- Terrazole 35WP
- V-10161 4SC

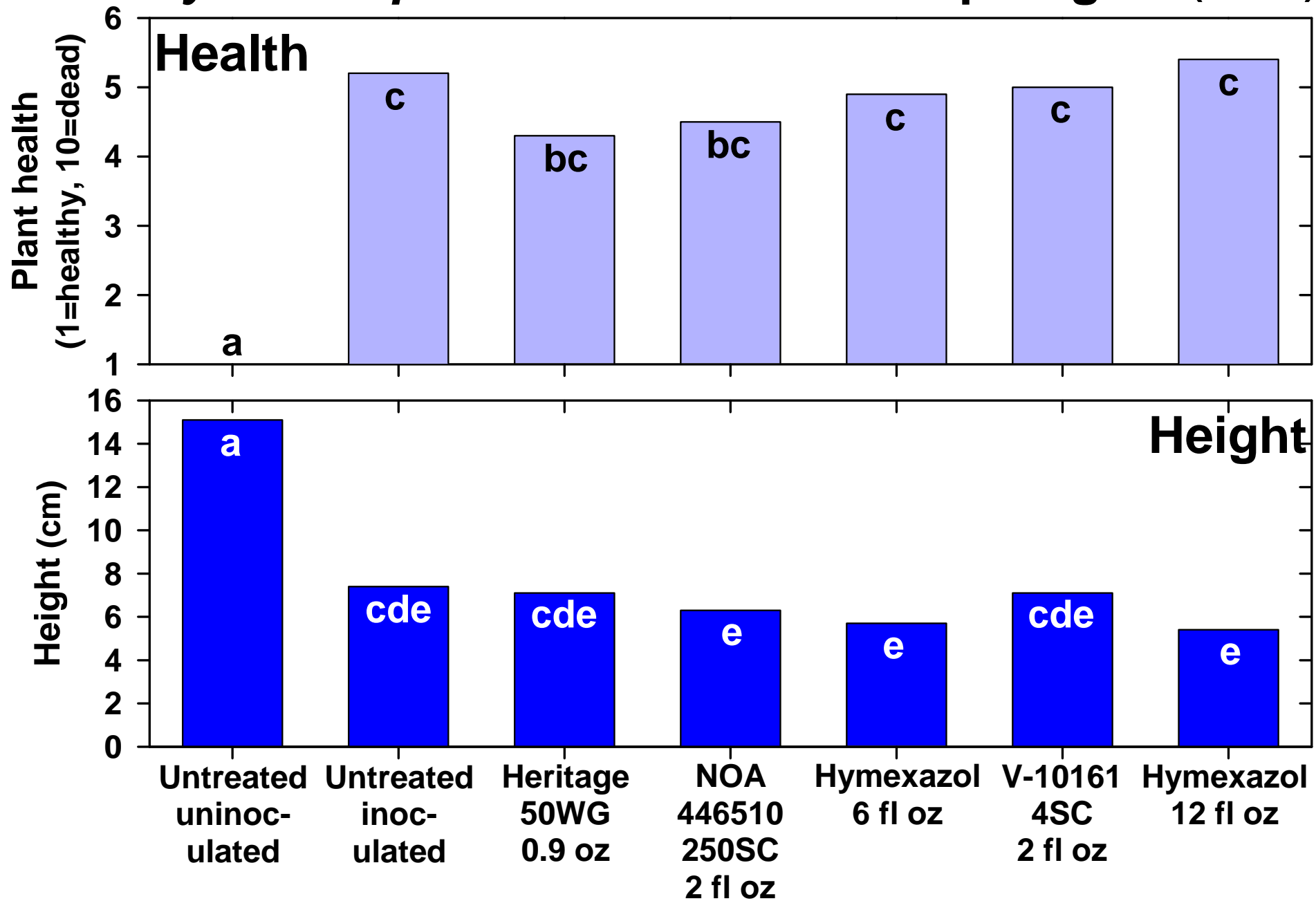
Pythium aphanidermatum on Snapdragon

- 'Montego Mix' seedlings transplanted on 30 Apr into media with 8 oz infested millet/1 ft³.
- 6 one-plant replicates in CRD.
- 200 ppm Peter's 20-20-20 twice weekly.
- Treatments drenched 30 Apr (after transplant), 14 May.
- Plant health, height rated on 23 May, 6 Jun.

Pythium aphanidermatum on Snapdragon (1 of 2)



Pythium aphanidermatum on Snapdragon (2 of 2)



Phytophthora nicotianae on Snapdragon

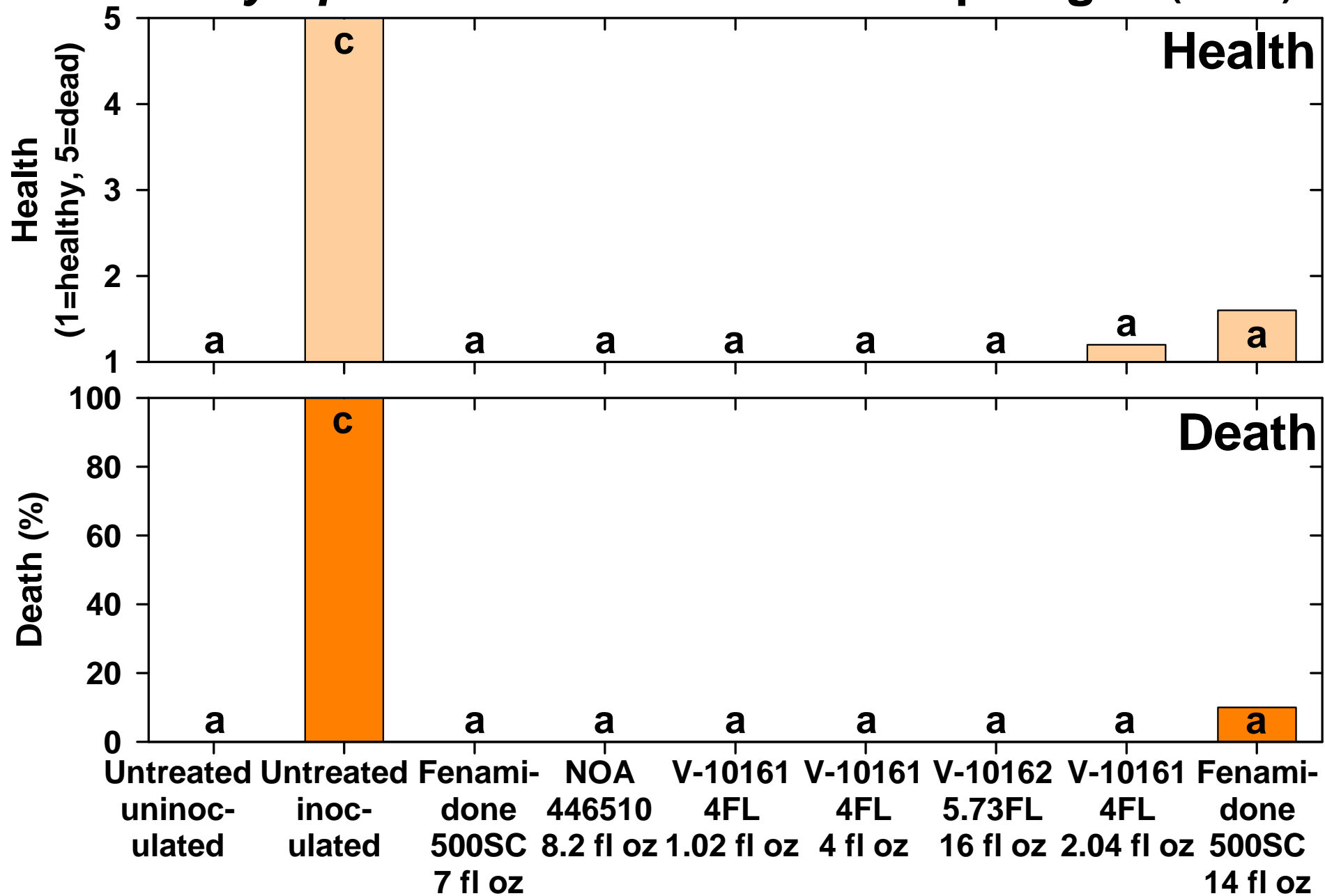
Products tested

- Cyazofamid 400SC
- Fenamidone 500SC
- MultiGard
- NOA 446510
- Stature DM 50WP
- Truban 30WP
- V-10161 4FL
- V-10162 5.73FL

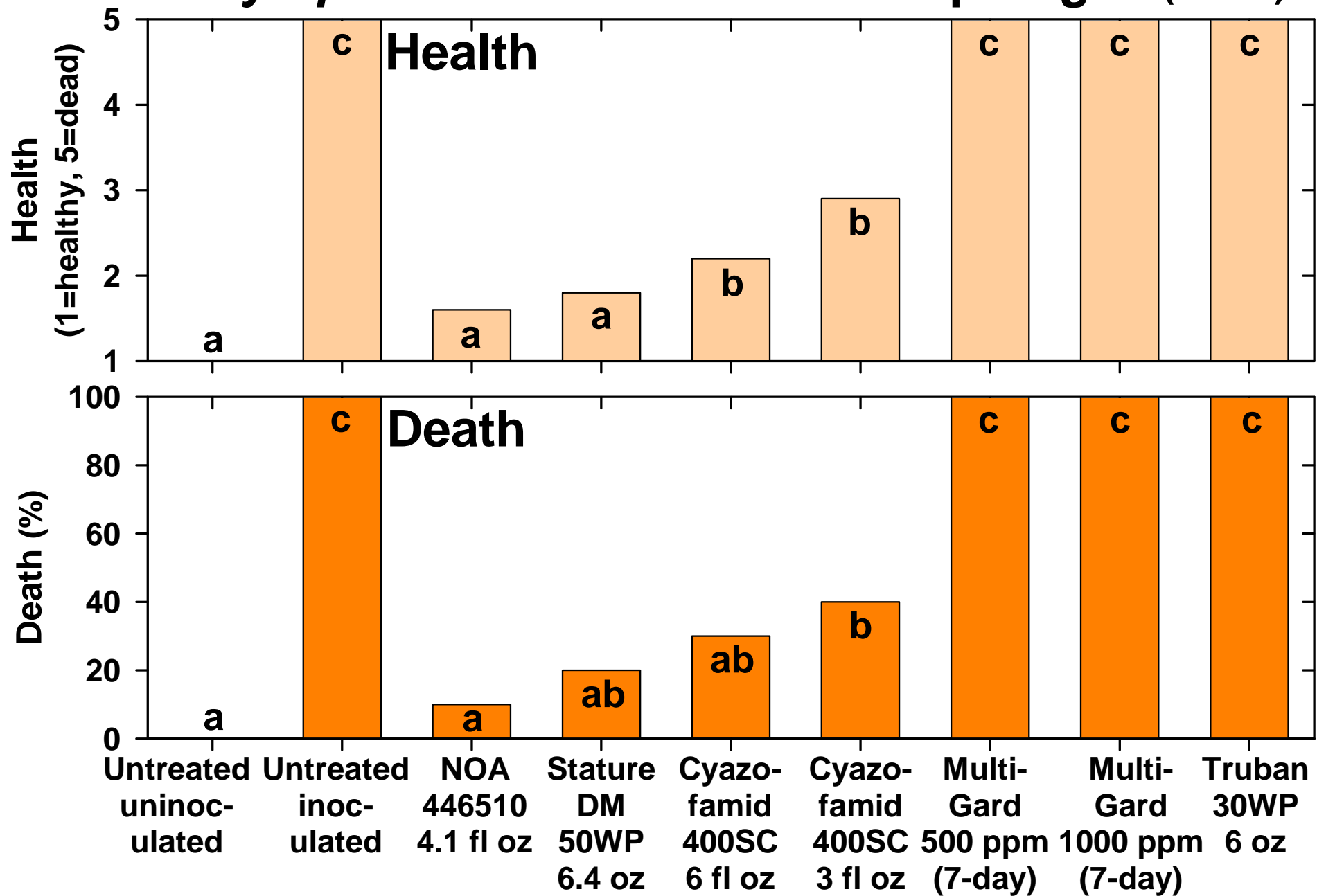
Phytophthora nicotianae on Snapdragon

- 'Montego Mix' seedlings transplanted in Apr.
- 200 ppm Peter's 20-20-20 3 times weekly.
- 10 one-plant replicates in CRD.
- 1 ml zoospore solution pipetted into soil at base of plants on 20 May.
- Treatments drenched at 14-day intervals on 18 May, 1 Jun (MultiGard at 7-day).
- Plant health, death rated on 25 May, 1,8,15 Jun.

Phytophthora nicotianae on Snapdragon (1 of 2)



Phytophthora nicotianae on Snapdragon (2 of 2)



Phytophthora nicotianae on Snapdragon

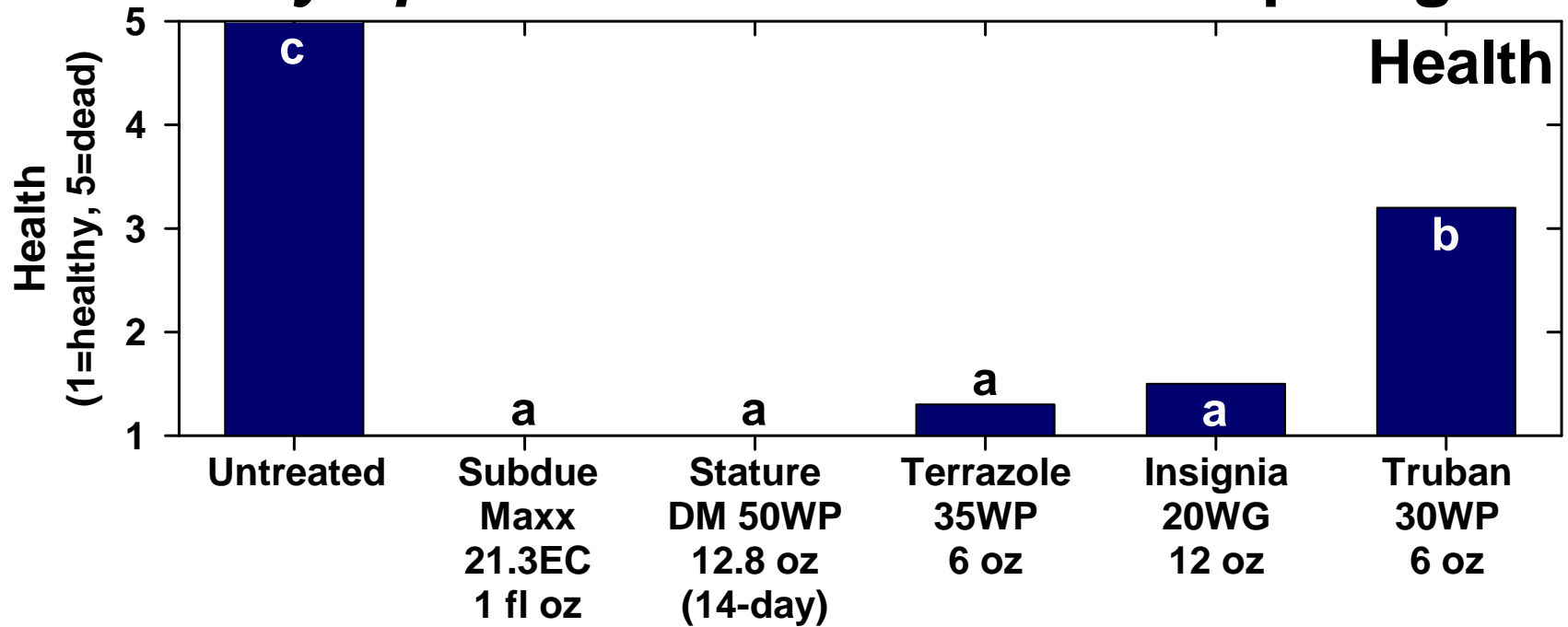
Products tested

- Insignia 20WG
- Stature DM 50WP
- Subdue MAXX
21.3EC
- Terrazole 35WP
- Truban 30WP

Phytophthora nicotianae on Snapdragon

- 'Rocket Red' fertilized with 200 ppm Peter's 20-20-20 3 times weekly.
- 6 one-plant replicates in CRD.
- 1 ml zoospore solution pipetted into soil at base of plants on 15 Aug.
- Treatments drenched at 7-day intervals on 15,22,29 Aug (Stature at 14-day).
- Plant health, death rated on 22,29 Aug and 5 Sep.

Phytophthora nicotianae on Snapdragon



Foliar *Phytophthora nicotianae* on Vinca

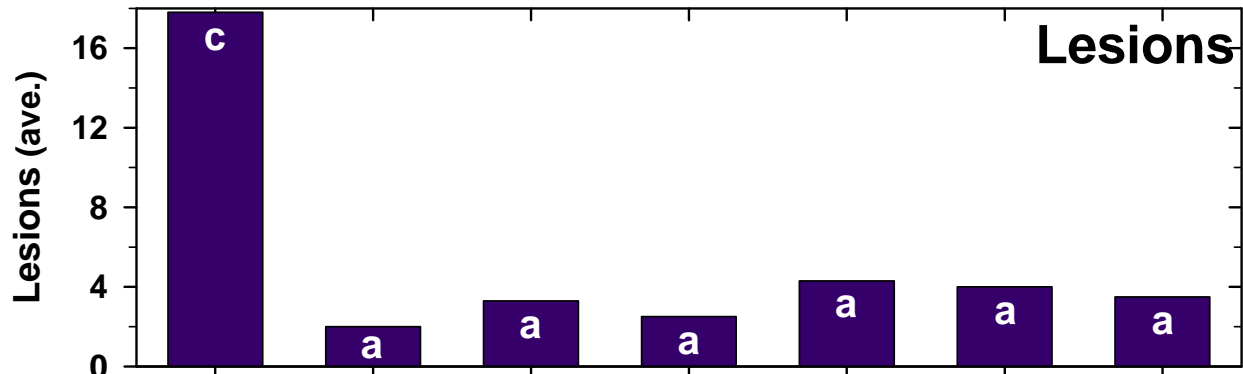
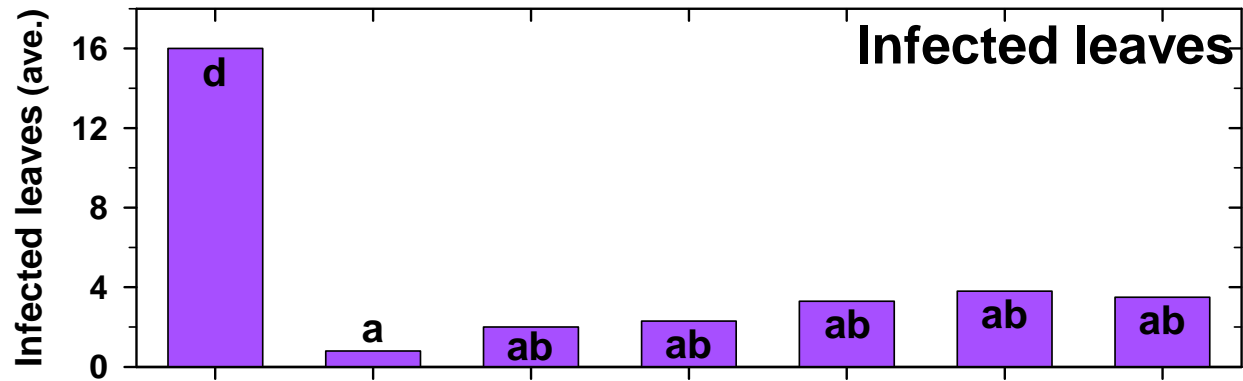
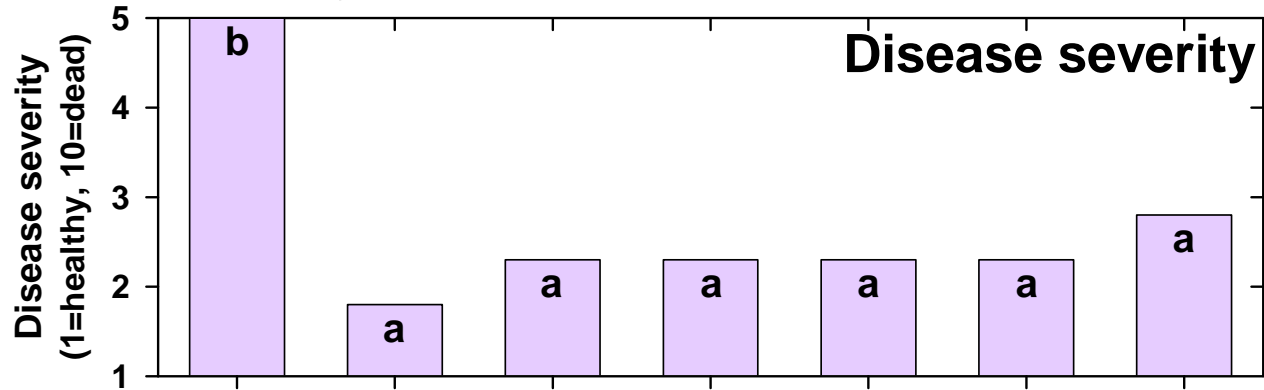
Products tested

- Aliette WDG
- Heritage 50WG
- Hurricane
48WP
- Stature DM 50WP
- Subdue MAXX
2MEC

Foliar *Phytophthora nicotianae* on Vinca

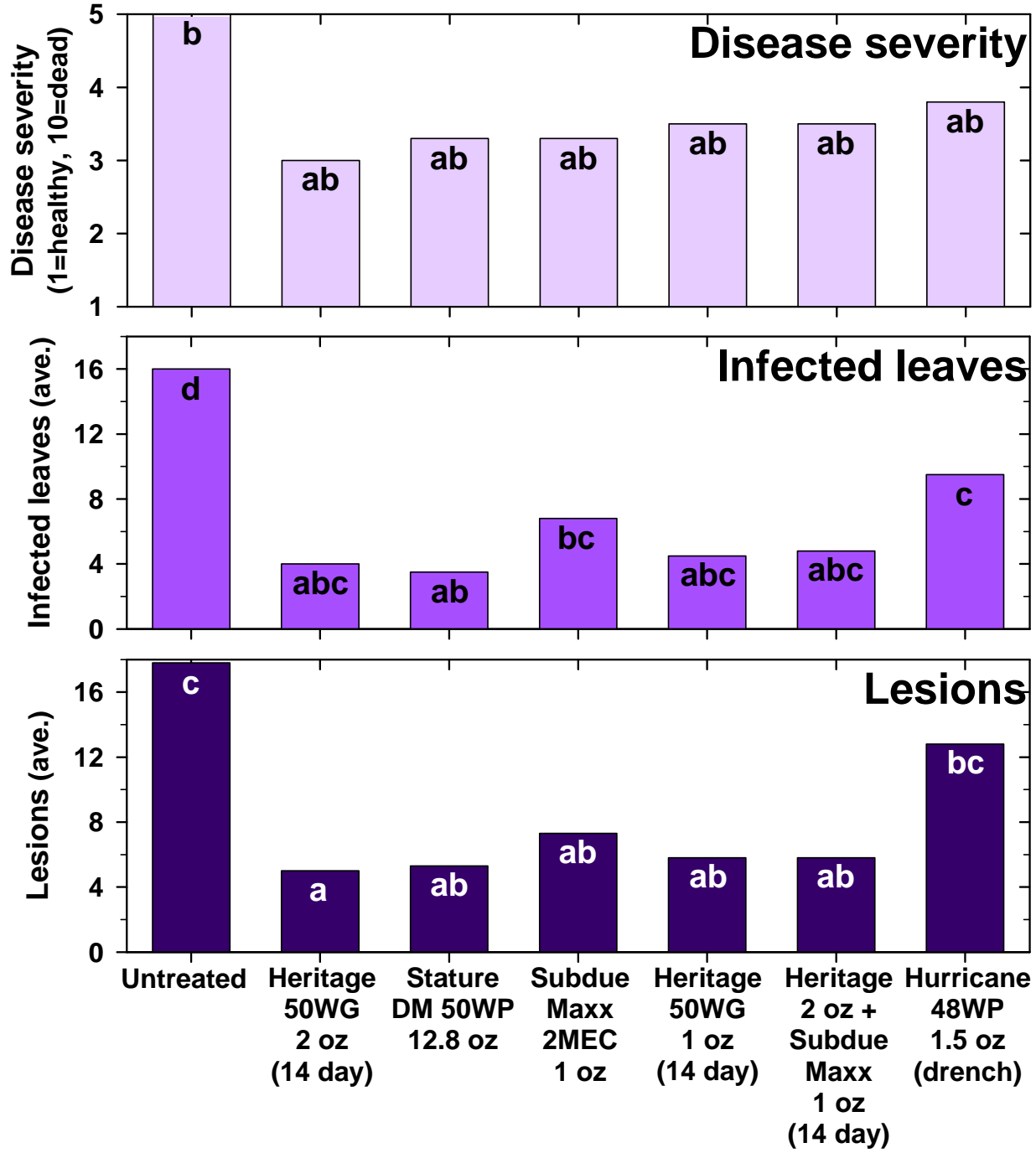
- ‘Cooler Pink’ fertilized with 250 ppm Peter’s 20-20-20 3 times weekly.
- 4 one-plant replicates in CRD.
- Zoospore solution sprayed onto plants 1 day after initial treatment.
- Treatments sprayed at 7-day intervals (Hurricane applied as drench).
- Numbers of lesions, infected leaves and disease severity rated.

Foliar *Phytophthora nicotianae* on Vinca (1 of 2)



Untreated Heritage 2 oz + Subdue Maxx 0.5 oz Aliette WDG 2.5 lb Heritage 2 oz + Subdue Maxx 1 oz Heritage 50WG 1 oz Heritage 50WG 2 oz Hurricane 48WP 1.5 oz

Foliar *Phytophthora nicotianae* on Vinca (2 of 2)



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Closing comments

Questions?