Diseases of Coastal Vegetable Crops: Updates and Developments

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Artichoke
Arugula
Asparagus
Basil
Bean
Beet
Bok choy
Broccoli
Brussels spts.
Cabbage
Carrot
Cauliflower
Celery
Chickpea
Chinese cabbage
Cilantro
Corn salad
Cucumber
Endive
Escarole
Fava bean
Fennel
Garlic
Kale
Leafy mustards
Leek
Lettuce
Mint
Onion
Parsley
Pea
Pepper
Radicchio
Radish
Rappini
Spinach
Squash
Swiss chard
Tomatillo
Tomato
Blackberry
Blueberry
Grape
Raspberry
Strawberry
Salinas Valley: Proliferation of new DM races

Spinach downy mildew races

1990

‘08 ‘09 ’10 ’12
Fusarium oxysporum
Rhizoctonia solani
Impatiens necrotic spot virus
INSV: recent, new CA reports:
Lettuce, Basil, Celery, Endive, Faba bean, Pepper, Radicchio, Spinach, Tomato
TSWV
Verticillium wilt

Fusarium wilt
Verticillium in soil

MeBr + CP
flat fume, tarppe
Verticillium in soil

MeBr + CP
flat fume, tarpped
(2015)
Bed fumigation w/ alternatives: straight chloropicrin, chloropicrin + Telone
Seedborne *V. dahliae* on spinach seed

Spinach seeding rate:
3 to 5 million seed/A
Two root rot diseases of lettuce

- Black root rot
  - *Thielaviopsis basicola*

- Pythium root rot
  - *Pythium uncinulatum*
Thielaviopsis on lettuce
Pythium uncinulatum
F. oxysporum

Verticillium

Peronospora

ApVY
Cercosporidium (s)

Fusarium avenaceum

P. syringae (s)
Truly a cash crop