

Vegetable problems, 2011 Michigan

In chronological sequence from spring to fall

As reported in Michigan State University Extension Vegetable CAT Alerts

(Crop Advisory Team) With links to the articles

But first:

What was GOOD last year?

What worked, what produced well?

Why?

Now, on to diagnosing and planning to avoid 2011 problems in 2012!

April

1) Potato blight information -

http://news.msue.msu.edu/news/article/urgent_potato_late_blight_information_update

2) Aster leaf hoppers in carrots -

<http://ipmnews.msu.edu/vegetable/vegetable/tabid/151/articleType/ArticleView/articleId/3319/Aster-leafhoppers-in-carrots.aspx>

3) Degree days, how behind are we -

<http://news.msue.msu.edu/news/category/vegetables/P230>

May

4) Asiatic garden beetle a new pest -

http://news.msue.msu.edu/news/article/asiatic_garden_beetle_a_new_pest_in_southwest_michigan

6) Purple spot of asparagus -

http://news.msue.msu.edu/news/article/purple_spot_disease_of_asparagus

5) Corn Maggot -

http://news.msue.msu.edu/news/article/new_seed_corn_maggot_tool_available_on_enviro_weather

6) Such a May! Only spotty news mainly about planting, which is behind, from now on. Not many pests talked about

7) Late planting and wet conditions -

http://news.msue.msu.edu/news/article/late_planting_and_wet_conditions_exacerbate_early_season_onion_weed_problem

8) Regional reports 5-18-11 includes purple spot, cutworms, wet conditions slowing planting down, cabbage white butterflies laying eggs, common asparagus beetle adults flying -

http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_may_18_2011

9) Greenhouse tomato diseases -

http://news.msue.msu.edu/news/article/how_to_spot_and_stop_diseases_on_greenhouse_tomato_seedlings

The screenshot shows a webpage with a green header containing navigation links: Home, About Us, Contact Us, and CANR News. Below the header is a red box with the text 'High Feed Costs'. To the left is a sidebar with categories: Agriculture, Community, Lawn & Garden, and Natural Resources, along with a 'Sign up for MSUE News Digests' button. The main content area features the article title 'Know your onion diseases and how to manage them', published on June 22, 2011. The author is Mary Hausbeck, Michigan State University Extension, Department of Plant Pathology. The article text discusses anthracnose and purple blotch, mentioning that anthracnose was confirmed in June 2011 and purple blotch was found in 2010. It includes a photograph of an onion leaf with lesions and a caption: 'Anthracnose lesion caused by Colletotrichum, confirmed June 20. Photo credit: M. Hausbeck, MSU.'

Rev the Veg: *Learn from Last Year*, Page 1

Janet Macunovich and the Beverly Hills Community Gardeners
Questions? Or for free weekly news: www.GardenAtoZ.com, 248-681-7850

- 10) Asparagus pests -
http://news.msue.msu.edu/news/article/asparagus_insect_pests_asparagus_beetle_and_asparagus_miner
- 11) Avoiding celery black streak -
http://news.msue.msu.edu/news/article/avoiding_high_risk_period_may_help_prevent_black_streak_development_in_celery
- 12) Regional reports 5-25-11 includes purple spot and asparagus beetle, Colorado potato beetle emerging -
http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_june_1_2011

June

- 13) Regional reports 6-1-11 includes wettest spring in memory and the most difficult, common asparagus beetle -
http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_june_1_2011
- 14) Colorado potato beetle management -
http://news.msue.msu.edu/news/article/colorado_potato_beetle_insecticide_resistance_management
- 15) Onion weed control -
http://news.msue.msu.edu/news/article/onion_weed_control
- 16) Regional reports 6-8-11 includes asparagus beetle, Colorado potato beetle, cucumber beetle, cutworms, weed infestations a problem for some -
http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_june_8_2011
- 17) Forecasting potato blight -
http://news.msue.msu.edu/news/article/forecasts_identifying_favorable_environmental_conditions_for_potato_late_blight
- 18) Weed control -
http://news.msue.msu.edu/news/article/early_identification_and_postemergence_management_of_broadleaf_weeds_in_veg
- 19) Strange world of cutworms -
http://news.msue.msu.edu/news/article/many_cutworm_cakes_were_baked_last_week
- 20) Regional reports 6-15-11 includes Colorado potato beetle, cutworms, woodchuck and deer damage to young crops, monitoring diamond back moth, it has pesticide resistance and thus a serious problem, many crops behind due to weather, poor yields for root crops due to wet soils, black cutworm on field corn, asparagus rust, aster leafhoppers -
http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_june_15_2011
- 21) Rust on asparagus -
http://news.msue.msu.edu/news/article/aeciospores_found_on_asparagus_volunteers
- 22) Potato blight updates -
http://news.msue.msu.edu/news/article/updates_to_the_five_day_potato_late_blight_forecast_and_twitter_page_for_michigan

- 23) Growing degree days -
http://news.msue.msu.edu/news/article/growing_degree_day_information_clarifies_late_planting_impact_on_crop_matur
- 24) Onion diseases -
http://news.msue.msu.edu/news/article/know_your_onion_diseases_and_how_to_manage_them
- 25) White mold in potatoes -
http://news.msue.msu.edu/news/article/white_mold_or_sclerotinia_stem_rot_in_potatoes
- 26) Phytophthora -
http://news.msue.msu.edu/news/article/look_for_phytophthora_disease_o_n_winter_squash_and_pumpkin_now
- 27) Potato blight -
http://news.msue.msu.edu/news/article/gardeners_and_small_scale_potato_growers_can_help_prevent_late_blight

mid-June

***For Beverly Hills Community Gardens: Squash

Bugs laying eggs!

"...After mating, the female bugs lay eggs in clusters of seven to 20 in rows on the undersides of leaves in the angle formed by two leaf veins (Figure 2). Egg laying usually starts in mid-June in the Midwest and three to four weeks earlier in the southeastern United States. The eggs are about 1/16 inch in length and orange to yellow, but they turn to a metallic bronze color in a few days. Squash bug eggs will hatch in seven to 10 days under typical summer conditions. Newly hatch nymphs are wingless and pale-green to white with reddish-brown heads and legs. As the nymphs grow, they become gray and their wing pads become more and more developed..."

http://news.msue.msu.edu/news/article/the_squash_bug_a_major_insect_pest_of_pumpkins_and_squash

- 27) Regional reports 6-22-11 includes Colorado potato beetle, cucumber beetle, European corn borer, white mold (Sclerotinia) damaging tunneled tomatoes, imported cabbage worm butterflies flying and laying eggs, slow crop development due to rain, weed pressure in many asparagus fields, common asparagus beetle, rust -

http://news.msue.msu.edu/news/article/regional_reports_on_michigan_ve_getables_june_22_2011

- 28) IPM for asparagus after harvest -

http://news.msue.msu.edu/news/article/integrated_management_of_aspara_gus_following_the_end_of_the_harvest_period

- 29) Regional reports 6-29-11 include Colorado potato beetle in all stages, bacterial spot on peppers, tarnished plant bugs causing flower abortion to corn, European corn borer moth & larva, lack of honeybees a concern, hail storm damage, wet soils dictating planting, growth and harvesting of underground crops, damping off crop death significant due to wet soils, common asparagus beetles, asparagus rust, striped cucumber beetle, finding Cercospora blight on carrots early -

http://news.msue.msu.edu/news/article/regional_reports_on_michigan_ve_getables_june_29_2011



Figure 1. Adult squash bug.



Figure 2. Squash bug eggs on squash leaf.

July

- 30) Regional report 7-6-11 includes Colorado potato beetle in all stages, herbicide damage to crops in high wind areas, cucumber beetles carrying bacterial wilt, thrips in seedlings, squash vine borers flying, Squash bugs laying eggs, weed control most significant problem in onions, common asparagus beetles, rust, purple spot, lots of crops about 1-2 weeks behind, aster yellows, leafhoppers - http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_july_6_2011
- 31) Disease in potato crops light - http://news.msue.msu.edu/news/article/the_2011_season_brings_minimal_diseases_in_potato_crops
- 32) Downy mildew on cucumbers - http://www.news.msue.msu.edu/news/article/downy_mildew_outbreak_in_southeast_michigan_on_cucumbers
- 33) Regional reports 7-13-11 includes squash vine borer, Japanese beetles, aphids, downy and powdery mildew, slow development of some crops due to weather, tarnished plant bug, root rot, purple spot and rust on asparagus, herbicide damage on asparagus more than reporter liked, sparse male blossoms hurting fruit set on vine crops, powdery mildew lesions a month earlier than usual, alternaria and cercospora blights on carrots - http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_july_13_2011
- 34) Downy mildew on onions - http://news.msue.msu.edu/news/article/downy_mildew_detected_on_onions_so_take_action_now
- 35) Watermelon mosaic virus - http://news.msue.msu.edu/news/article/watermelon_mosaic_virus_detected_in_winter_squash

Note: **Early season (items 1- 35) listed only moderate to serious outbreaks**

- 36) Regional report 7-20-11 includes squash vine borers, tomato hornworm larva, bacterial diseases, European corn borer, downy mildew, Japanese beetles, celery anthracnose, thrips, botrytis, adult Colorado potato beetle, Western bean cutworm moths and egg masses, potato leafhopper adult and nymphs, watermelon mosaic virus, angular leaf spot, aster leafhopper, alternaria and cercospora blights on carrots - http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_july_20_2011
http://www.news.msue.msu.edu/news/article/western_bean_cutworm_update_for_july_25_2011
- 37) Regional reports 7-27-11 includes squash vine borers, virus diseases, bacterial diseases, bacterial spot, European corn borer moth, corn earworm moth, western bean cutworm moth, raccoon, starlings and redwing blackbird damage on corn, cabbage worm, downy and powdery mildew, spider mites,

blossom blast from heat on tomatoes, thrips, celery leaf tier, aphids, aster leafhopper, early blight, bacterial blight, bacterial soft rot, anthracnose, Phytophthora fruit rot, purple spot, Japanese beetle, leafhoppers, aster yellows, imported cabbage worm -

http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_july_27_2011

38) Phytophthora IPM -

http://news.msue.msu.edu/news/article/use_integrated_management_strategies_with_phytophthora_on_peppers

39) Western bean cutworm links -

http://www.news.msue.msu.edu/news/article/western_bean_cutworms_are_active_in_sweet_corn

August

40) Late blight on tomatoes -

http://news.msue.msu.edu/news/article/late_blight_confirmed_in_tomatoes_in_essex_county_ontario

41) Sunscald -

http://news.msue.msu.edu/news/article/hot_and_sunny_days_promote_sunscald_in_peppers_and_other_vegetables

42) Regional reports 8-3-11 includes corn earworm, European corn borer, western bean cutworm moth and larva, downy mildew, two-spotted spider mite on melons and eggplant, cabbage butterflies (imported cabbage worm), blossom end rot on tomatoes and bell peppers, sunscald, purple blotch and botrytis on onions, variegated cutworm, aphids, spider mites, aster leafhoppers, aster yellows, tomato late blight, Colorado potato beetle, flea beetle, powdery mildew, watermelon mosaic, leafhopper -

http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_august_3_2011

http://www.news.msue.msu.edu/news/article/western_bean_cutworm_update_for_august_2_2011

43) Regional reports 8-10-11 includes hail damage, standing water, downy mildew, bacterial spot and speck, mites, bacterial soft rot, corn earworm, European corn borer, radial cracking on tomatoes, fruit abortion in summer squash, powdery mildew, aphids, variegated cutworm, Celery anthracnose, aster leafhoppers, purple spot, anthracnose, foliar diseases, western bean cutworm moth and larva, Phytophthora wilt, Watermelon mosaic virus, aster yellows, blossom abortion in snap beans -

http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_august_10_2011

44) Regional reports 8-17-11 includes bacterial diseases, powdery mildew, Tobacco hornworms, beneficial parasites, downy mildew, Phytophthora capsici, European corn borer, bacterial rot and thrips on cabbage, thrips, purple blotch, Stemphyllium leaf blight, and bacterial soft rot on onions, aphids, aster leafhoppers, variegated cutworm, Celery anthracnose, rust, aster yellows, Watermelon mosaic virus -

http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_august_17_2011

- 45) Bacterial spot on peppers -
http://news.msue.msu.edu/news/article/bacterial_spot_damages_michigan_peppers1
- 46) Bacterial canker on tomatoes -
http://news.msue.msu.edu/news/article/bacterial_canker_ravages_processing_tomatoes
- 47) Regional reports 8-24-11 includes disease on vine crops, bacterial problems on tomatoes, bacterial spot on peppers, Phytophthora blight and powdery mildew on squash family, black spot on watermelon, squash bugs, European corn borer, verticillium wilt on eggplant, western bean cutworm, corn earworm -
http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_august_24_2011
- 48) Regional reports 8-31-11 includes corn earworm, downy mildew -
http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_august_31_2011

September

- 49) Regional reports 9-7-11 includes virus in vine crops, powdery mildew on pumpkin, European corn borer, corn earworm -
http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_september_7_2011
- 50) Asparagus aphids -
http://news.msue.msu.edu/news/article/check_your_asparagus_field_for_aphids
- 51) Regional report 9-14-11 includes Phytophthora fruit rot, corn and broccoli worms -
http://news.msue.msu.edu/news/article/regional_report_on_east_michigan_vegetables_september_14_2011
- 52) Regional reports 9-21-11 includes aphids, broad mite, virus diseases, European asparagus aphids -
http://news.msue.msu.edu/news/article/regional_reports_on_michigan_vegetables_september_21_2011
- 53) Brown marmorated stink bug -
<http://ipmnews.msu.edu/vegetable/vegetable/tabid/151/articleType/ArticleView/articleId/3251/Update-on-finding-the-brown-marmorated-stink-bug.aspx>
- 54) Potato psyllids -
<http://ipmnews.msu.edu/vegetable/vegetable/tabid/151/articleType/ArticleView/articleId/3266/Potato-psyllids-and-zebra-chip-disease.aspx>
- 55) Broad mite -
<http://ipmnews.msu.edu/vegetable/vegetable/tabid/151/articleType/ArticleView/articleId/3303/Broad-mite-Not-your-typical-Michigan-mite.aspx>