

### Quadris Label For Vine Crops and Tomatoes R. M. Riedel

Cucurbits, cataloupe, cucumber, gourd, honey dew and muskmelon, watermelon, pumpkin and zucchini squash are labeled for control of Anthracnose, Belly Rot, Downy Mildew, Gummy Stem Blight Alternaria and Cercospora Leaf Spots and Powdery Mildew at 0.18 to 0.25 lb ai/A. For resistance control do not make more than 2 applications of Quadris before using another chemical with a different mode of action. More than 6 applications of Quadris per season are not allowed (ie., 2.88 qts of product/crop/acre/season). Preharvest interval for cucurbit crops is one day. Worker reentry is 4 hours.

Growers need to remember when alternating with Bravo or Maneb, neither of these materials will give adequate control of Powdery Mildew although they are good wide spectrum fungicides that will be needed for control of other fungal diseases. Alternative mildewcides that could be mixed with Bravo or Maneb for control of Powdery Mildew are Nova (for pumpkin, assuming that an 18E label will be granted for 1999) or Benlate, where labeled for the other cucurbit crops. Genetic resistance for Powdery Mildew should be used when available.

Quadris is also labeled for Tomatoes at 0.08 to 0.10 lb ai/A on a 7 to 14 day schedule for Anthracnose, Black Mold, Buckeye Rot, Early Blight, Septoria and Leaf Spot; and for Late Blight at 0.10 lb/A on a 5 to 7 day schedule. For Late Blight control, Quadris should be alternated on a one to one basis with a fungicide with a different mode of action. Bravo (chlorothalonil) or one of the EBDC fungicides, eg., Manzate 200 or Dithane, are usually used this purpose. For control of Late Blight neither of these fungicides are particularly effective. In case of a severe Late Blight outbreak, Ridomil Gold should be tank mixed with Bravo or EBDC. For control of other diseases no more than 3 applications of Quadris should be made back to back before changing to a fungicide with a different mode of action. Quadris should not be applied within 21 days of transplanting (35 days of seedling) or within 6 days plus or minus of postemergence applications of Sencor. Total use of Quadris per season is 0.6 lb ai/A. Quadris may be applied on tomatoes the day of harvest.

Growers should be aware that Quadris has been difficult to completely clean from sprayers. Trace amounts of the fungicide have been linked to damage to apples, especially MacIntosh and varieties with MacIntosh ancestry. They should consider use of separate spray tanks in mixed vegetable- fruit operations.

Crop Reports  
B. Bergefurd and T. Harker

Cabbage began to be transplanted the weekend of March 27th. Some growers are done with transplanting cabbage. Sweet corn began to be planted last week, both under plastic and bare ground sweet corn. Some fertility problems have been occurring on vegetable transplants in the greenhouse, but this past weeks heat and light has helped out. Growers have been adjusting fertilizer types and rates to compensate. Seeding of pepper transplants for processing crops began 2 weeks ago. Seeding of tomato, cabbage, etc. continues.

#### Soil Samples Size for Analytical Labs W. Evans

The Michigan State University Soil and Plant Nutrient Lab would like to remind those submitting samples that these samples should each be approximately 1 pint in size. As the samples are processed, soil is lost in drying, grinding, weighing, and any repackaging that might be done. Sufficient sample must be left after all of this for several separate procedures, even for the standard test. The 1 pint standard is probably a good standard for most labs, but growers should check with their consultants/labs for specific requirements.

#### Time Capsule, Predictions For Agriculture For The Year 2000 R. Precheur

Recently, after packing to move out of our building for renovations, I came across an article I had been saving. It was a list of predictions for agriculture for the year 2000 made in 1989 by Joe Sabol, Associate Dean, School of Agriculture, California Polytechnic State University, San Luis Obispo, CA. Since this is the year in which we approach the millennium, I thought it might be fun to see how well the Dean did some 10 years ago. The Dean begins by stating that these predictions are: 1). Mostly for California agriculture. 2). Based on recent history and current events. 3). Not conservative but more like moderate. 4). Meant to be somewhat controversial for the panel and audience to debate where he made the presentation. 5). Do not represent his personal wishes but are only predictions.

The dean made 24 prediction and this is a summarized list presented here. Some are right on or about to happen.

1. There will be no pesticides permitted on any food crops.
2. There will be "branded" meat, produce, fruit and nuts including grower, packer and shipper.
3. There will be "labels" on all food products which will identify the source and all cultural practices used by producer.
4. There will be an increase in insect vector diseases in CA as we eliminate pesticides and increase wetlands.
5. The concern for a safe wholesome, nutritious food supply shall be demonstrated by a new and powerful governmental agency.
6. New and emerging Genetic Engineering will almost be outlawed.

7. The small, pure organic grower we know today, shall enjoy an increasing market and return for several years, but will almost be extinct by 2000 because the commercial large producer will have adopted many of the practices currently used by organic producers and produce a consistently high quality product.
8. What are now considered to be minority ethnic populations shall continue to grow and will dominate the food production systems in CA by the year 2000.
9. Small growers shall still flourish in CA but only if they have more than one specialty crop with a secure market niche.
10. There will be several petroleum crises between now and the year 2000.
11. More the 50% of the food we eat in CA will be imported from other states and nations.
12. Land (agricultural) will continue to receive much lip service but we will not have a concrete long term agricultural land preservation policy.
13. There will be small riots among environmentalists, recreationalists, developers and interest groups over land use.
14. There will be an initiative to split CA into two states which will fail.
15. Rodeos, as we know them today will be banned. Animal rights interests shall become very powerful.
16. Nearly all agricultural occupations which are currently labeled as dangerous shall be eliminated and these positions shall be replaced by robots, electronic computers, mechanization, genetic engineering and your leadership.
17. The number of occupations in the "agricultural services" shall continue to grow.
18. Students graduating with degrees in Agriculture shall be required to speak and write a foreign language.
19. The government shall still be deeply involved in agriculture. Government programs shall be rewarding the producer practicing low input sustainable methods.
20. The number of acres of greenhouses producing food in CA will multiply by 10 times today's acreage.
21. The need for well trained leaders in agriculture will become critical.
22. Higher education in agriculture will become a national priority.
23. Agriculture exports shall continue to be important.
24. The image of agriculture will change. It will improve, but not easily.

#### The 7-10 Day Outlook\*

##### Temperature:

From 5 Apr to 10 Apr, the mean surface temperature will be 50-60 degrees F for most of OH except the northern 1st or 2nd tier of counties where the temp will range 40-50 degrees.

From 10 Apr. to 15 Apr., the mean surface temperature will range 40 to 50 degrees for all of OH.

##### Precipitation:

From 5 Apr to 10 Apr, expect 0.5 to 1.0 inches for most of OH except for east and NE OH above I-70.

From 10 Apr. to 15 Apr, expect 0.5 to 1.0 inches for all of OH

AKRON-CANTON

DAY DATE | WED 07| THU 08| FRI 09| SAT 10| SUN 11| MON 12|

TEMP

MIN/MAX | 41 59| 42 67| 48 65| 46 56| 37 54| 35 54|

PREC PROB

24 HRS | 40 | 27 | 71 | 57 | 50 | 44 |

CLEVELAND

DAY DATE | WED 07| THU 08| FRI 09| SAT 10| SUN 11| MON 12|

TEMP

MIN/MAX | 41 58| 43 65| 48 67| 46 57| 39 54| 36 55|

PREC PROB

24 HRS | 38 | 30 | 71 | 57 | 50 | 43 |

COLUMBUS

DAY DATE | WED 07| THU 08| FRI 09| SAT 10| SUN 11| MON 12|

TEMP

MIN/MAX | 41 61| 44 69| 51 68| 48 58| 36 57| 38 58|

PREC PROB

24 HRS | 28 | 33 | 71 | 55 | 46 | 41 |

CINCINNATI

ODAY DATE | WED 07| THU 08| FRI 09| SAT 10| SUN 11| MON 12|

TEMP

MIN/MAX | 44 67| 50 70| 53 68| 46 60| 37 61| 43 66|

PREC PROB

24 HRS | 15 | 41 | 68 | 50 | 42 | 38 |

DAYTON

DAY DATE | WED 07| THU 08| FRI 09| SAT 10| SUN 11| MON 12|

TEMP

MIN/MAX | 42 61| 46 68| 50 66| 46 56| 38 59| 39 61|

PREC PROB

24 HRS | 17 | 41 | 70 | 52 | 45 | 39 |

TOLEDO

DAY DATE | WED 07| THU 08| FRI 09| SAT 10| SUN 11| MON 12|

TEMP

MIN/MAX | 38 60| 43 64| 47 66| 43 58| 38 56| 36 56|

PREC PROB

24 HRS | 23 | 43 | 72 | 55 | 49 | 40 |

YOUNGSTOWN

DAY DATE | WED 07| THU 08| FRI 09| SAT 10| SUN 11| MON 12|

TEMP

MIN/MAX | 42 57| 38 67| 48 65| 44 55| 37 53| 35 54|

PREC PROB

24 HRS | 46 | 23 | 70 | 58 | 51 | 44 |

\* LEGEND:

TEMP MIN/MAX - forecasted minimum and maximum temperature for time periods midnight to noon and noon to midnight.

PREC. PROB. 24 - probability of precipitation for the 24 hour period.

What's New At The VegNet Web Site

From the Vegetable Crops Branch At Fremont

1998 se Sweet Corn Variety Trial

1998 Fresh Market Cabbage Cultivar Evaluation

1998 Fresh Market Vegetable Reports from the Enterprise Center at Piketon.

1998 Colored Pepper Cultivar Trial

1998 Fresh Market Tomato Cultivar Evaluation

Evaluation of Eastern Style Muskmelons for Southern Ohio, 1998

Mechanical Harvesting Regimes for Processing Bell Pepper Production in Ohio

>> 1998 Pumpkin Yield Data is Here!...Plus the First Set of Pumpkin Pictures

See how your favorite varieties performed.

Check out new varieties.

View Powdery Mildew Tolerance ratings

plus the effects of spray programs on pumpkin production. More pumpkin pictures coming.

First Look At:... Ohio Fruit and Vegetable Congress, Feb. 1999 Complete Truck Crops, Processing Crops and Potato Programs. Visit: "The Talk Between the Rows".

In: "Problem Of The Week": Late Blight Warning for OH Greenhouse Tomatoes plus problems from previous weeks.

In The Pumpkin Patch, JULY 1998, My Pumpkins Are Bigger Than Yours Returns,

See: Bacterial Wilt, Angular Leaf Spot and Crop Status.

Visit: "The Problem of The Week" For Pictures of...

Septoria Leaf Blight and Phytophthora Blight of Tomato.

Angular Leaf Spot, Buckeye Rot and Phytophthora Blight of Cucurbits.

Timber Rot and Hail Damage.

The Meigs /Washington Vegetable Tour from SE Ohio, (Sweet corn, tomatoes + peppers)

Check Out the New Look of the Tomcast Section (requires your browser to be able to view frames.)

+ A New Tomato Research Report by C. A. Wyenandt, R. M. Riedel, M. Bennett and C. Welty.

From The Vegetable Crops Planner: Links now provided to the National Weather Service Offices in Cleveland and Wilmington, OH. Provides Agricultural Observations, soil temperatures, climate summaries, growing degree days and much more.

1998 Ohio Vegetable Production Guide - Online. Visit: "The Library

Return to Vegetable Crops Homepage Ohio State University Extension

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Where trade names are used, no discrimination is intended and no endorsement by Ohio State University Extension is implied. Although every attempt is made to produce information that is complete, timely and accurate, the pesticide user bears the responsibility of consulting the pesticide label and adhering to those directions.

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