

# RIMpro-BIOFIX 2016

Update 9 April 11

Actual information on phenology, ascospore maturation and first discharge to help consultants and producers to set the correct Biofix date for RIMpro-*Venturia*. This information is provided by research institutes and advisory services. Observations over the past 15 years have learned that 'Green Tip' is not always the best Biofix setting. The first ascospores were found between 21 days before Green Tip, until 17 days after. Best simulation results were obtained by using as Biofix:



## Date of first observed ascospore discharge, or date of Green tip, whatever comes first

- = no information received yet  
 none = not found until the date of this bulletin  
 wait = not decided yet

| Region               | Organisation                          | First ascospores                         |                              | First green                                                | Biofix        |
|----------------------|---------------------------------------|------------------------------------------|------------------------------|------------------------------------------------------------|---------------|
|                      |                                       | Mature spores in perithecia (microscope) | Ejected<br>L= lab<br>F=Field | 10% buds with green tips<br>+ variety                      | Proposed      |
| <b>North America</b> |                                       |                                          |                              |                                                            |               |
| Canada Québec        | IRDA                                  | -                                        | -                            | 4-4: none                                                  | wait          |
| New York             | Hudson Laboratory                     | 6-3                                      | F: 15-3 none                 | 16-3: Zestar, Red Delicious, NY-2                          | 16-3          |
| Massachusetts        | University of Massachusetts           | -                                        | -                            | 29-3 Zestar, Pink Lady                                     | 1-4 ?         |
| <b>Europe</b>        |                                       |                                          |                              |                                                            |               |
| Finland              | Pro Agria Ålands Hushållningssällskap | -                                        | -                            | 5-4 None, will take another 2-3 weeks                      | wait          |
| Latvia               | LPPRC, Riga                           | 4-4: none                                | F: 4-4 none                  | 4-4: none                                                  | wait          |
| Poland               |                                       | 17-3                                     | F: 24-3 none                 | 26-3 Jonagold                                              | 27-3          |
|                      | IPSAD                                 | 24-2                                     | F: 27-3                      | 4-4 all varieties                                          | 27-3          |
| Norway               | Bioforsk, Oslo                        | -                                        | F: 24-3 none                 | 29-3 (south west)                                          | wait          |
| Sweden               | Skane, Jordbruksverket                | -                                        | F: 29-3 none                 | 31-3 till 3-4                                              | 2-4 till wait |
| Denmark              | Hort. Res. Centre Arslev              | -                                        | F: 25-3                      | 25-3: early Gravenstein<br>29-3: Jonagold 4-4: Elstar      | 25-3          |
| Germany North        | Esteburg, Jork                        | -                                        | L: 18-3                      | 24-3 ?                                                     | 24-3          |
| Netherlands          | PPO, Randwijk                         | 29-2                                     | L: 18-3 2 spores             | 18-3 Alkmene<br>23-3 Jonagold<br>26-3 Elstar, Golden       | 18-3          |
| Belgium              | PCF, Sint-Truiden                     | 18-2                                     | L: 18-3 9 spores             | 15-3 Boskoop<br>21-3 Jonagold                              | 18-3          |
| Germany South-West   | DLR Rheinpfalz, Neustadt              | 1-3                                      | F: 29-3                      | 10-3 Gala                                                  | 21-3          |
|                      | LO Offenburg, Mittelbaden             | 23-2                                     | -                            | 11-3 early varieties                                       | 6-3           |
| Germany East         | LfL Pillnitz, EO Dresden              | -                                        | (F: 7-3 few )<br>F: 29-3     | 21-3 Kanzi, 28- Gala<br>29-3 Golden, Idared<br>30-3 Elstar | 21-3          |
| Germany South        | MABO (Lake Constance)                 | 23-2                                     | -                            | 14-3 Jonagold                                              | 14-3          |
|                      | KOB (Bavendorf, Lake Constance)       | -                                        | F: 25-3                      | 22-3 Gala<br>26-3 Golden, Jonagold,<br>28-3: Elstar        | 22-3          |
|                      | LTZ Augustenberg                      | -                                        | F: 25-3                      | 17-3 Jonagold                                              | 15-3          |
| Switzerland          | Frick FIBL (North East)               | -                                        | F: 24-3                      | 25-4 Gala 29-4 Golden                                      | 20-3          |
| France Centre        | La Moreniere                          | 19-2                                     | F: 23-2                      | 18-3                                                       | 10-3          |
|                      | Fredon Centre: Cher                   | 3-3                                      | -                            | 17-3                                                       | 17-3          |
|                      | Fredon Centr: Indre et Loire          | 15-2                                     | F: 23-2                      | 17-3                                                       | 10-3          |
|                      | Fredon Centr: Orléans - Loiret        | 10-3                                     | F: 10-3                      | 17-3                                                       | 17-3          |
| France Southwest     | GIE Perlim (Limosin)                  | 12-2                                     | F: 25-2                      | 21-3 Golden                                                | 3-3           |
|                      | CTIFL (Bergerac)                      | 12-2                                     | F: 2-3                       | 14-3 Pink Lady<br>17-3 Gala, Braeburn                      | 2-3           |
|                      | CEFEL (Montauban)                     | 15-2                                     | F: 26-2                      | 3-3 Pink Lady                                              | 26-2          |
| France Southeast     | CEHM (Montpellier)                    | 17-2                                     | F: 22-2                      | 10-3 none                                                  | 22-2 ?        |
|                      | Sicolys (Rhône)                       | 22-2                                     | F: 22-2                      | 25-3 Golden                                                | 22-2 ?        |
|                      | Cham. d'Agr. Savoie                   | 22-2                                     | F: 6-3                       | 15-3 Gala, 21-3 Golden                                     | 1-3           |
| Italy South Tirol    | Vinschgau                             | -                                        | -                            | 16-3 Golden                                                | 12-3          |
|                      | Early regions                         | -                                        | F: 27-2                      | 29-2 Pink Lady<br>10-3 other varieties none                | 9-3           |
| Italy Trentino       | Early zones                           | 23-2                                     | -                            | 12-3 none                                                  | 9-3           |
|                      | Late zones                            | -                                        | -                            | 12-3 none                                                  | 12-3          |
| Italy Piedmont       | AGRIION                               | 26-2                                     | F: 14-3                      | 14-3 - Red delicious                                       | 14-3          |

|                                                 |                               |      |             |                                           |      |
|-------------------------------------------------|-------------------------------|------|-------------|-------------------------------------------|------|
| Italy Friuli                                    | ERSA Pordenone                | 7/3  | F: 31-3/1-4 | 14-3 Golden                               | 14-3 |
| Czech Republic                                  | Biosad (Noth-east Bohemia)    |      |             | 4-4 Idared                                | 4-4  |
| Hungary                                         | Medi-Fruct Szövetkezet        | -    | -           | 7-3 Gala, Golden                          | 7-3  |
| Bosnia-Herzegovina                              | Trebovljani, Gradiska         | -    | -           | 5-3 Idared, Granny Smith                  | 5-3  |
| Kosovo                                          | Edmond Rexhepi                | -    | 15-3 none   | 7-3                                       | 7-3  |
| Bulgaria<br>Agricultural University-<br>Plovdiv | Central South (Plovdiv)       | 26-2 | L: 7-3      | 1-3 Pink, Granny<br>3-3 Gala, 14-3 Golden | 4-3  |
|                                                 | Central South (Krichim)       | 29-2 | L: 7-3      | 25-2:Granny 7-3 Golden                    | 4-3  |
|                                                 | South East (Karnobat)         | 9-3  | L: 9-3      | 25-2 Pink, Granny, J.gold<br>7-3 Golden   | 5-3  |
|                                                 | North West (Radotina)         | 11-3 | L: 11-3     | 28-2 Granny, 7-3 Golden                   | 5-3  |
|                                                 | Bulgaria North East (Balchik) | 12-3 | L: 12-3     | 17-3 Granny                               | 17-3 |
| Catalonia                                       | IRTA-Mas Badia                | -    | -           | 15-3 Gala, Pink, Granny                   | 15-3 |

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