



## Spraying technique in raspberries

Jens-Peter Ralfs, Jork, Rudolf Faby, Langförden

### treatments 2010

| amount of water<br>per hectare | drop size | nozzles           | pressure<br>bar | speed<br>km/h |
|--------------------------------|-----------|-------------------|-----------------|---------------|
| 1. control                     | -         | -                 | -               | -             |
| 2. 300 l                       | coarse    | AVI80 01*, orange | 6,5             | 5,5           |
| 3. "                           | fine      | ATR brown         | 7,7             | "             |
| 4. 600 l                       | coarse    | AVI80 02*, yellow | 6,5             | 5,5           |
| 5. "                           | fine      | ATR orange        | 7,1             | "             |
| 6. 900 l                       | coarse    | AVI80 03* blue    | 6,5             | 5,5           |
| 7. "                           | fine      | ATR red           | 8,4             | "             |

) \* air injection nozzles reduce drifting

- biological effect on botrytis fruit rot
- " " on two-spotted-spider mite
- deposition trials (Brilliant sulphoflavin, BSF)





## Control of botrytis fruit rot 2010

treatments : 1) 10.06., 20 % open flowers, BBCH 62, Switch 1 kg/ha, 2) 16.06., 60 % open flowers, BBCH 66, Signum 1 kg/ha, 3) 23.06., 90 % open flowers, BBCH 67, Teldor 2 kg/ha, 4) 30.06. end of flowering, BBCH 81,

Switch 1 kg/ha, spraying machine: Lochmann APS 4/80 Q

planting distance 3 m x 0,4 m, cultivar Tulameen, planting year 2005, single row system, 8 m per plot, 4 replications, fruit samples 250 g per plot

| treatments          | botrytis fruit rot, %                        |                   |                   |                   |                   | mean value |
|---------------------|--|-------------------|-------------------|-------------------|-------------------|------------|
|                     | 11.07 <sup>1</sup> ./<br>16.07. <sup>2</sup> | 17.07./<br>21.07. | 20.07./<br>26.07. | 24.07./<br>29.07. | 27.07./<br>31.07. |            |
| 1. control          | 42,0   | 39,2              | 45,6              | 45,7              | 38,7              | 42,2       |
| 2. 300 l -coarse    | 18,9   | 13,9              | 14,6              | 26,6              | 14,7              | 17,7       |
| 3. " -fine          | 17,6   | 18,3              | 19,8              | 17,6              | 18,7              | 18,3       |
| 4. 600 l -coarse    | 17,7   | 12,5              | 14,8              | 25,6              | 21,2              | 18,4       |
| 5. " -fine          | 23,1   | 20,1              | 15,9              | 26,9              | 14,2              | 20,1       |
| 6. 900 l -coarse    | 27,6   | 25,8              | 19,2              | 26,6              | 12,3              | 22,3       |
| 7. " -fine          | 21,9   | 20,4              | 14,2              | 25,3              | 15,6              | 19,3       |
| L.S.D. 5 % (t-Test) | 9,6  | 9,8               | 10,2              | 8,6               | 7,7               | 4,7        |

)<sup>1</sup> date of harvest, )<sup>2</sup> date of evaluation

