

Commodity: Hop

GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
<i>Hops GAPs</i>	<i>Germany</i>	<i>Foliar spray</i>	<i>0.15</i>			<i>from first shoots onwards</i>	<i>6</i>	<i>7</i>			<i>Pseudoperonospora humulii ?</i>
No Metalaxyl-M residue trials											
Metalaxyl residue data											
2347/82	Germany	foliar spray (WP)	0.225- 0.675	1000- 3000			6	42	2.48 0.17	rohhopfen	REM 21/76 (?), metalaxyl
274/77	Germany	foliar spray (WP)	0.248-0.9	1100- 4000			12	0/3 5 7	17.2/3.7 3.5 1.8	green cones green cones dried cones	REM 21/76, metalaxyl
275/77	Germany	foliar spray (WP)	0.248-0.9	1100- 4000			12	0/3 5 7 7	5.4/2.1 1.5 0.5 <0.05	green cones green cones dried cones beer	REM 21/76, metalaxyl
276/77	Germany	foliar spray (WP)	0.248-0.9	1100- 4000			12	0/3 5 7 7	1.6/6.0 2.7 1.7 0.05	green cones green cones dried cones beer	REM 21/76 , metalaxyl
282/78	Germany	foliar spray	0.248-0.9	1100- 4000			12	0/3 5 7 7	14/1.2 1.7 3.4 0.03	green cones green cones dried cones beer	REM 21/76, metalaxyl
289/78	Germany	foliar spray	0.248-0.9	1100- 4000			12	0/3 5 7 7	22/5.6 4.4 2.2 <0.01	green cones green cones dried cones beer	REM 21/76, metalaxyl
2037/83	Germany	foliar spray (WP)	0.22-0.80	1100- 4000		cone development	12	0/2 6/8 12 12	3.76/1.64 0.69/.059 0.70 1.17	green cones green cones green cones dried cones	REM 21/76

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			kg ai/ha	water (l/ha)	kg ai/hl						
								12	0.01	beer	
2234/84	Germany	foliar spray (WP)	0.22-0.80	1100-4000		cone development	12	0/3 5/7 10 10 10	2.0/0.36 0.38/0.36 0.28 0.87 0.011	green cones green cones green cones dried cones beer	REM 21/76
2235/84	Germany	foliar spray (WP)	0.22-0.80	1100-4000		cone development Green cones at last spraying	12	0/3 5/7 10 10 10	1.2/0.42 0.94/0.92 0.10 0.59 0.008	green cones green cones green cones dried cones beer	REM 21/76
2238/84	Germany	foliar spray	0.22-0.8	1100-4000		cone development Green cones at last spraying	12	0/2 6/8 12 12 12	2.91/0.9 0.54/0.8 0.56 1.38 0.01	green cones green cones green cones dried cones beer	REM 21/76
2038/83	Germany	Foliar spray (WP)	0.22-0.80	1100-4000		Green cones at last spraying	12	0/2 6/8 12 12 12	2.91/0.90 0.54/0.80 0.56 1.38 0.01	green cones green cones green cones dried cones beer	REM 21/76
2119/83	UK	foliar spray (WP)	0.075-0.42	400-1000		From shoots to almost full bine	5	6	0.17	dried cones	REM 21/76, metalaxyl
2120/83	UK	foliar spray (WP)	0.126-0.6	250-1500		From shoots to almost full bine	5	22	0.30	dried cones	REM 21/76, metalaxyl
2121/83	UK	foliar spray (WP)	0.105-0.6	250-1000		From shoots to almost full bine	5	47	0.18	dried cones	REM 21/76, metalaxyl
2116/83	UK	foliar spray (WP)	0.105-0.6	250-1000		From shoots to almost full bine	6	5	1.05	mature cones	REM 21/76- metalaxyl
2117/83	UK	foliar spray (WP)	0.105-0.6	250-		From shoots to almost	5	5	0.79	mature cones	REM 21/76- metalaxyl

Residue trials - Hop - page 3

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			kg ai/ha	water (l/ha)	kg ai/hl						
				1500		full bine					
2118/83	UK	foliar spray (WP)	0.105-0.6	250- 1500		From shoots to almost full bine	5	6	1.07	mature cones	REM 21/76- metalaxyl
2312/79	UK	foliar spray	0.10-0.20	500- 1000			8	36	0.49	dried cones	REM 21/76 , metalaxyl
2313/79	UK	foliar spray (WP)	0.15-0.33	758- 1167			8	32	0.34	dried cones	REM 21/76
2314/79	UK	foliar spray (WP)	0.07-0.34	337- 1685			8	47	0.76	dried cones	REM 21/76
301/78	Yugoslavia	foliar spray (WP)	0.15			mature cones	1	28	2.17	dried cones	REM 21/76
							2	16	2.55		
2268/85 2269/85 2320/85	Czechoslova- kia	foliar spray (WP)	0.24-0.43	1000- 1800		formation of side sprouts to formation of umbels	4	27	0.73/0.71/0. 46	Umbels	GLC method, metalaxyl (name of the method ?)
<i>Hops</i> <i>GAPs</i>	<i>Belgium</i>	<i>soil application</i>	<i>0.4</i>			<i>beginning of plant growth</i>	<i>1</i>	<i>7</i>			<i>Pseudop.humulii</i>
No Metalaxyl-M residue trials											
Metalaxyl residue data											
2024/79	Germany	spreading (GR)	0.2 g/plant			at sprouting	1	146-153 153 153	<0.2 <0.2 <0.005	green cones dried cones beer	REM 21/76 cones and REM1/80 beer, metalaxyl
2025/79	Germany	spreading (GR)	0.2 g/plant			at sprouting	1	146-153 153 153	<0.1 <0.1 <0.005	green cones dried cones beer	REM 21/76 cones and REM1/80 beer, metalaxyl
2026/79	Germany	spreading (GR)	0.2 g/plant			after cutting	1	146-150 153	<0.10 0.18	green cones	REM 21/76 cones, metalaxyl
2027/79	Germany	spreading (GR)	0.2 g/plant			plant height of 2 m	2	80-87	0.59-0.44	green cones	Methylenchlor., GC-PND(?) and

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			kg ai/ha	water (l/ha)	kg ai/hl						
			and 0.4 g/plant					87 87	0.33 0.006	dried cones beer	REM1/80 beer, control cones <0.1, control bier < 0.05
2028/79	Germany	spreading (GR)	0.2 g/plant and 0.4 g/plant			plant height of 1.5 m	2	80-87 87 87	<0.10 <0.10 <0.005	green cones dried cones beer	Methylenchlor., GC-PND (name of the method ?)and REM1/80 beer, metalaxyl
2029/79	Germany	spreading (GR)	0.2 g/plant and 0.4 g/plant			plant height of 3 m	2	90-94 97	0.43-0.12 0.13	green cones dried cones	Methylenchlor., GC-PND (?)
2030/79	Germany	spreading (GR)	0.3 g/plant			plant height of 2 m	2	80-87 87 87	0.27-<0.1 0.25 <0.005	green cones dried cones beer	Methylenchlor., GC-PND (?) and REM1/80 beer, metalaxyl
2031/79	Germany	spreading (GR)	0.3 g/plant			plant height of 1.5 m	2	80-87 87 87	0.16-<0.1 0.40 <0.005	green cones dried cones beer	Methylenchlor., GC-PND (?) and REM1/80 beer, metalaxyl
2032/79	Germany	spreading (GR)	0.3 g/plant			plant height of 3 m	2	90-94 97	0.19-0.23 0.11	green cones dried cones	REM 21/76 cones
2258/81	Germany	spreading (GR)	0.2 g/plant			at sprouting	1	114-134 134 134	0.67-0.25 0.18 <0.01	green cones dried cones beer	REM 21/76 cones and REM 16/76 beer, metalaxyl
2259/81	Germany	spreading (GR)	0.2 g/plant			at sprouting	1	114-134 134 134	0.21-<0.1 0.22 <0.01	green cones dried cones beer	REM 21/76 cones and REM 16/76 beer, metalaxyl
2260/81	Germany	spreading (GR)	0.2 g/plant			at sprouting	1	114-135 135 135	0.20-0.54 0.93 <0.1	green cones dried cones beer	REM 21/76 cones and REM 16/76 beer, metalaxyl
2360/79	Germany	spreading (GR)	0.2 g/plant and 0.4 g/plant				2	41 41	0.32 <0.05	shoots leaves	REM 21/76 , metalaxyl

* the control check in the studies carried in UK is coming from another experiment

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			kg ai/ha	water (l/ha)	kg ai/hl						

Note: residues are expressed as metalaxyl