Irrigation Recommendations and Weed and Bird Control for Blueberry and Blackberry

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Weed Control



Blueberry and Blackberry



Non-Bearing

Gallery: 0.66 – 1.33 lb/A in 20 gpa

- Apply in fall after cultivation or early spring before weeds emerge and when soil has settled.
- Do not apply within 12 months of harvest.
- Rainfall or 1" irrigation required.



Non-Bearing

Select 6-8 fl.oz/A OR Fusilade 1-1.5 pt/A

- Specific for grass control.
- Safe on blueberry, still use as a directed spray.
- Do not apply within 12 months of harvest.



Surflan 4AS: 2 - 6 qt/A in 40 gpa

- Beneath bushes before weeds emerge
- Avoid contact with foliage
- Rainfall or 1" irrigation required.



Solicam 80DF: 2.5 (light soil) – 5 (heavy soil) lb/A

- Apple to clean soil from fall to early spring.
- Rainfall or 1" irrigation required.
- Do not apply 1st application before 6 months after planting.



Princep 4L: 2 - 4 qt/A in 25 - 40 gpa

- Spring before weeds emerge and canes leaf out OR
- Split application in fall and spring (2.5 qt)
- Do not apply when fruit is present



Karmex 80DF: 2 - 4 lb/A in 25-40 gpa

- Same conditions as Princep
- Use in blueberry at least 1 year old.



Devrinol 50DF: 8 lb/A

- Devrinol may be applied to newly planted and established crops.
- Do not apply within 35 days of harvest.



Casoron 4G: 100 lb/A (Annuals) 150 lb/A (Perennials)

- Apply in fall before soil freezes.
- If incorporated, apply in fall or early spring.
- Do not apply within 4 weeks after transplanting.



Kerb 50WP: 2-4 lb/A in 20-50 gpa

- Kerb also has postemergence activity.
- Best results if applied in fall after crop is harvested and before soil freezes.
- Best control if T < 55F.
- Make only 1 application / year.
- Do not apply 1st application within 6 months after spring planting or 12 months after fall planting.



POST Non-Selective Herbicides

Gramoxone Extra 3L: 2 - 3 pt/A

- Use NIS 0.25% or COC 1%.
- Use low pressure to produce coarse spray.
- Best control if applied to actively growing weeds.
- No residual activity, so repeat applications may be necessary.



Pre-Plant Non-Selective Herbicide

Roundup WeatherMax 5.5L: 22 oz/A

- Depending on weed size and density
- PHI = 14 days.
- Max. Rate = 5.3 qt / acre / year.
- Use NIS 0.25% or AMS 1-2%.



Weed Control Program

New Planting

- Field Preparation: Roundup
- PRE, after soil settles: Gallery and Touchdown, Select or Fusilade.
- POST, directed spray or wiper application: Gramoxone or Rely







Irrigation



Blackberry

- Irrigation is essential from early spring until after harvest.
- Water usage from top 2 ft of soil.
- Irrigate before plants show signs of wilting.
- Peak water usage is 0.2 0.33 in. / day.
- Soil moisture manual test: sample at 10" ball sticky = enough moisture ball will not hold = dry soil



Blackberry/Blueberry

Excess moisture is also harmful:

- leads to soft fruit
- Leaches N
- Poor soil aeration

Blackberry responds well to drip irrigation. Blueberry needs irrigation in the first 3 years.

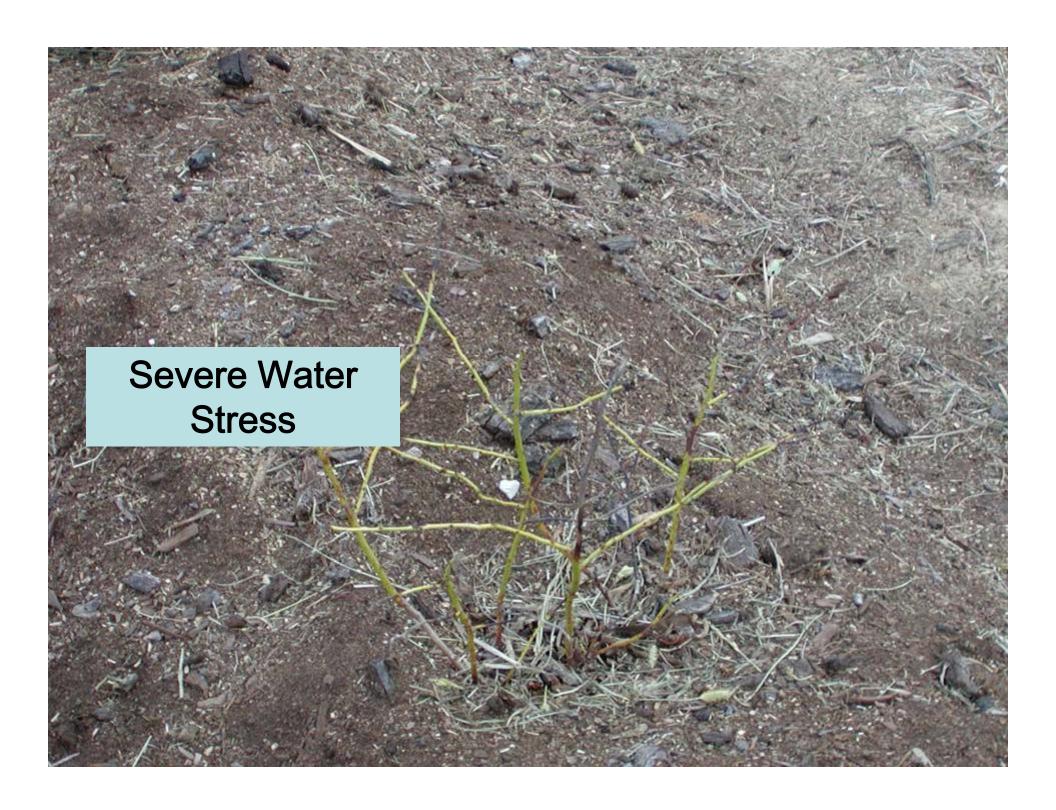


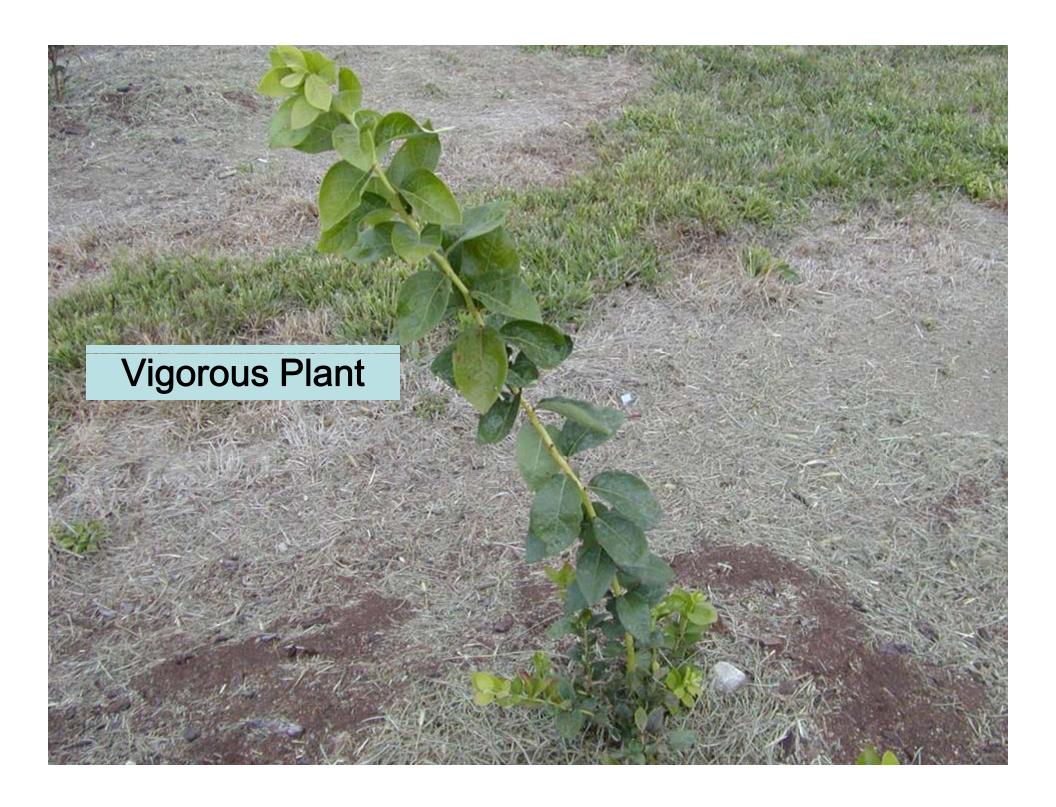












Bird Control













Blueberry 2002 Yields

of UKREC Varieties

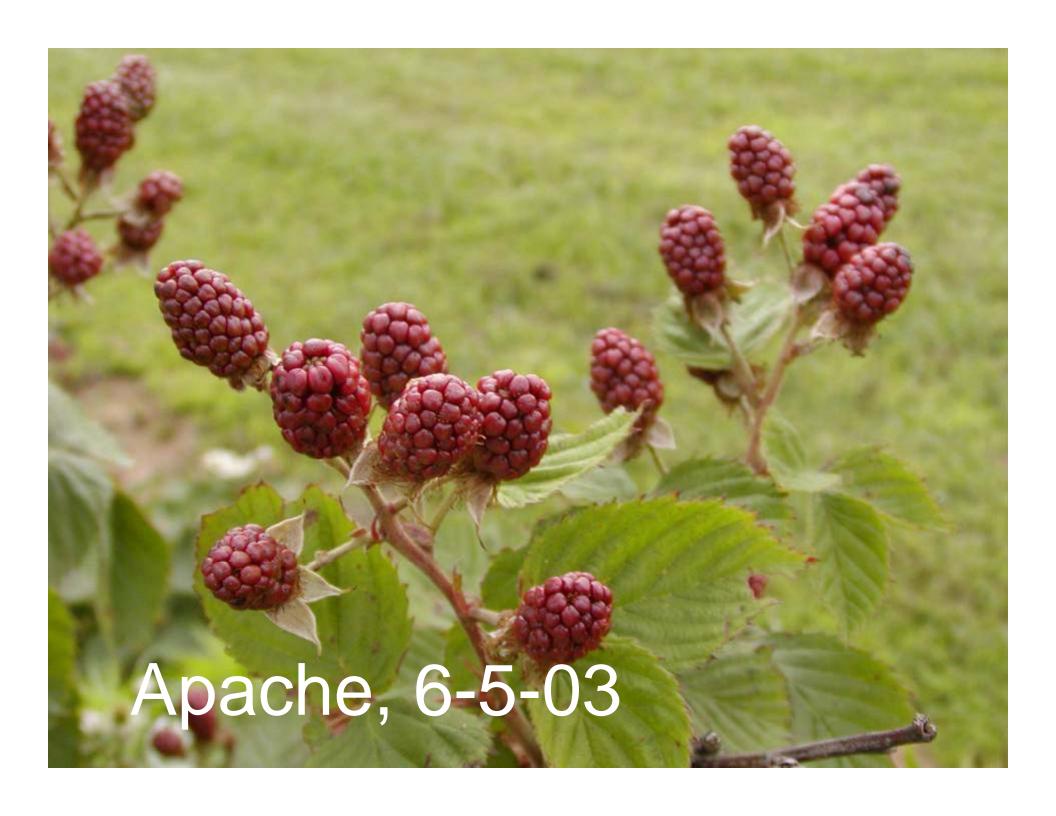
Princeton, KY



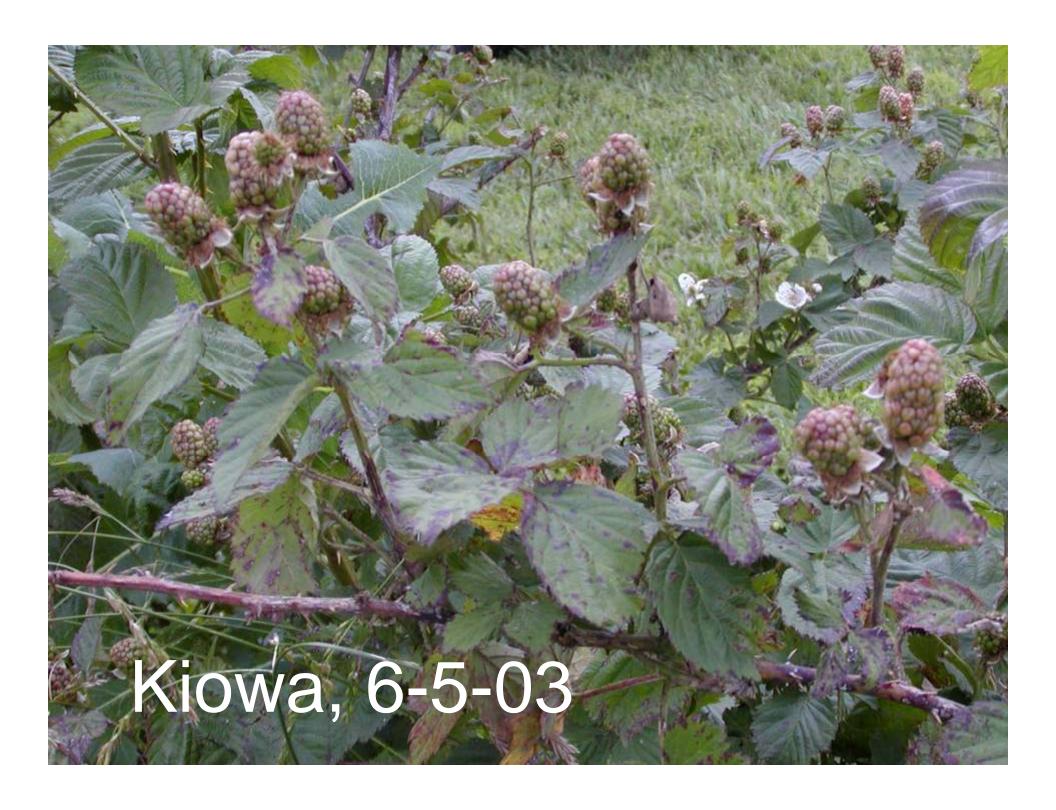
	Cumulative Yield 1995-2002 (lbs/bush)	2002 Yield Lbs/bush	Percent Ripe Fruit		
Cultivar			June 7	June 21	Berry Size (gr)
Sierra	60.9	9.6	0	91	1.9
Duke	59.9	9.7	63	100	2.0
Nelson	59.3	10.5	0	80	2.0
Toro	57.4	11.0	0	80	2.1
Blue Crop	56.5	11.5	0	82	1.7
Blue Gold	50.5	8.1	17	100	1.7
Sunrise	36.3	7.3	64	100	1.6
Patriot	34.2	8.7	0	100	1.7
LSD (5%)	8.7	2.7	6	NS	0.2

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Yield of blackberry in Princeton, KY

	X 7' . 1. 1	Percent Ripe Fruit		Berry Size	TT
Cultivar	Yield lbs/acre	June 30	July 15	(0)	Harvest Period
Apache	9,800	3	65	7.6	6/27-8/1
Kiowa	7,500	20	70	8.7	6/18-8/1
Chickasaw	6,200	15	85	7.0	6/18-7/26
Arapaho	3,450	75	100	3.5	6/18-7/12
LSD (5%)	3,300	NA	NA	0.9	

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