

## VENTURA COUNTY STUDY:

1) standard sprinkler 2) reduced sprinkler 3) drip only, buried, 4) drip-only, surface

1. What was the cost for 2 additional drip lines per bed?

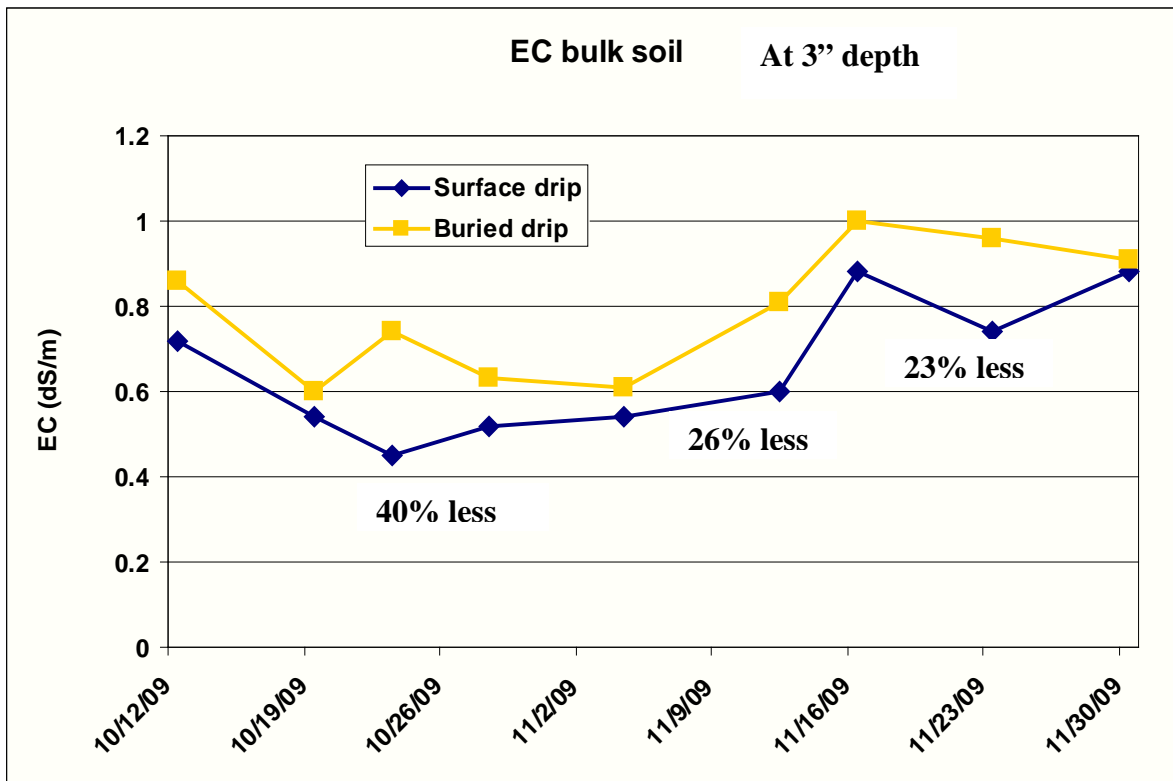
~\$200/acre

2. What was the cost of labor for moving 4 drip lines by hand to the surface and to plant rows?

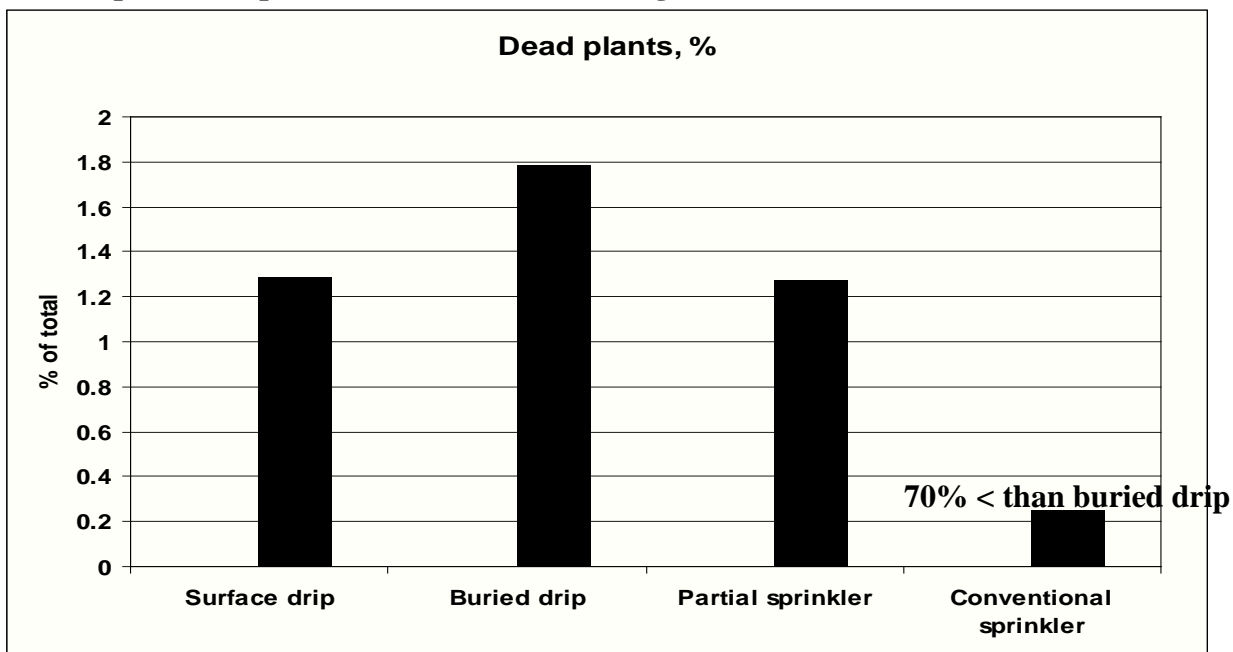
4 minutes for 4 people per 200ft of bed = 11 h per person/bed acre or 1h for a crew of 11.

At \$10.00/h = \$110/acre;

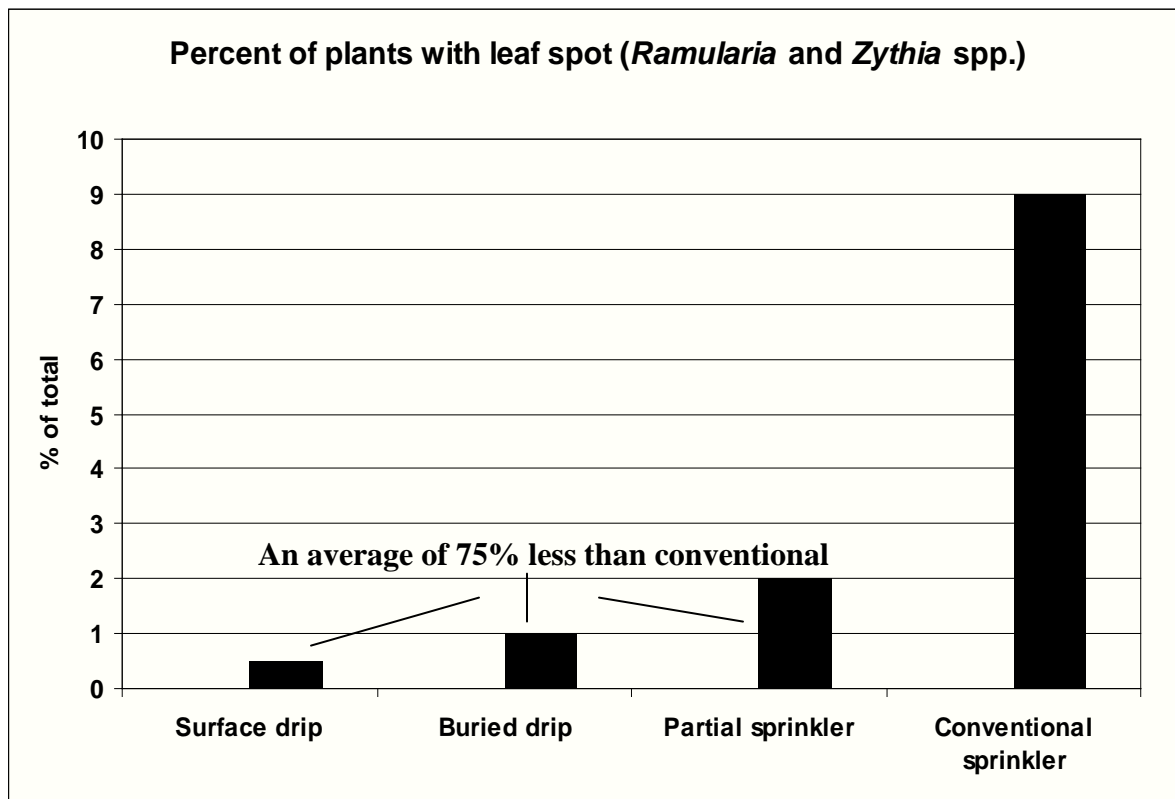
3. Did surface drip placement in plant rows improve salt leaching?



4. What percent of plants died in each of the irrigation treatments?



**5. Did drip-only irrigation prevent spread/incidence of water-splashed pathogens?**



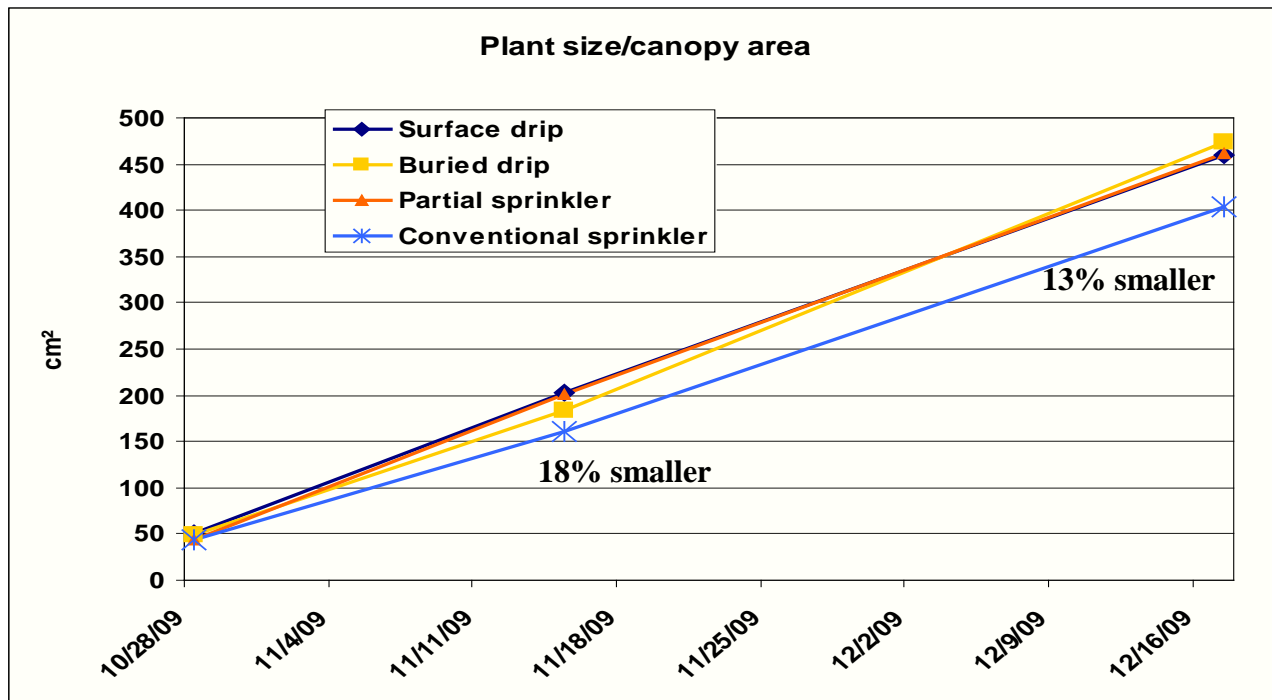
**6. Were fewer weeds found in furrows in drip-only treatments?**

No weeds were present in any furrows – all controlled by GoalTender+Devrinol.

**7. Did furrows stay dry and accessible in drip-only treatments?**

YES.

**8. Did the plants grow differently in different irrigation treatments?**

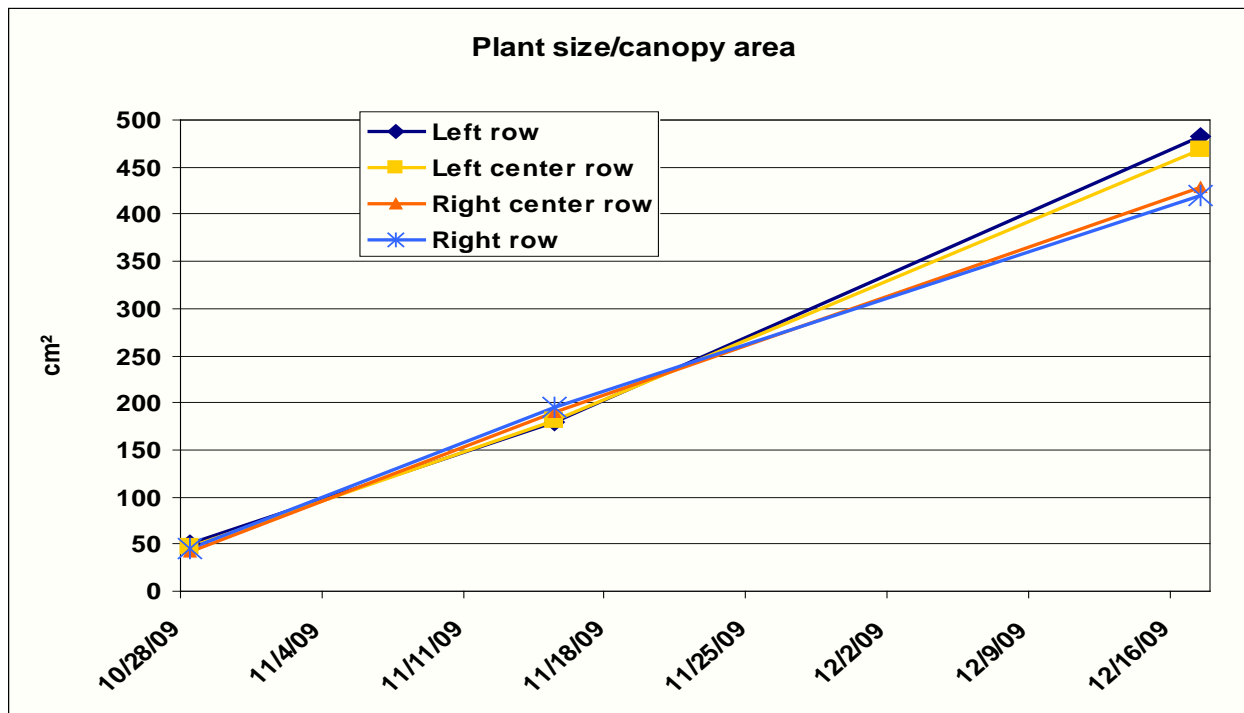


**9. Were the plants uniform in size in all treatments?**

Coefficient of variation, %

	28-Oct	15-Nov	17-Dec
Surface drip	20.5	12.5	14
Buried drip	17.5	18.5	14.5
Partial sprinkler	12.9	12	15
Conventional sprinkler	10	11.9	9

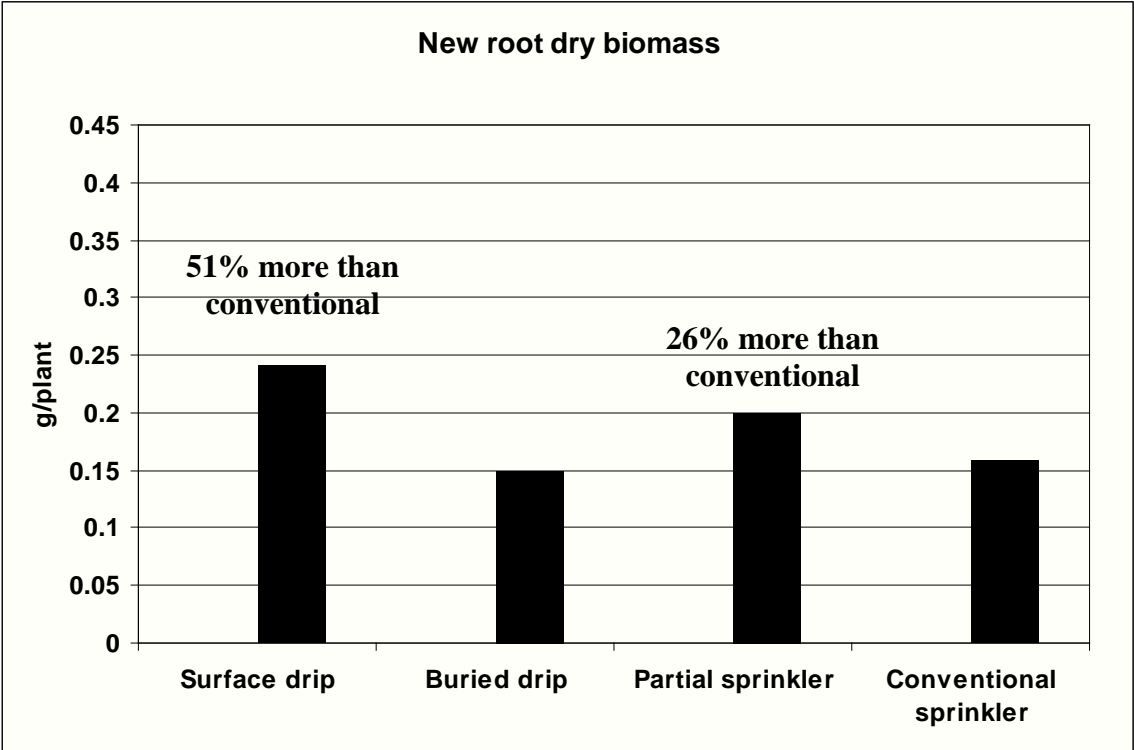
**10. Did plant placement within bed affect size?** No. Also, no significant effect of irrigation method.



**11. Did plants produce the same amount of leaves in all irrigation treatments?**

Yes, dry biomass of new leaves was similar in all irrigation treatments.

12. Did plants produce the same amount of new roots in all irrigation treatments?

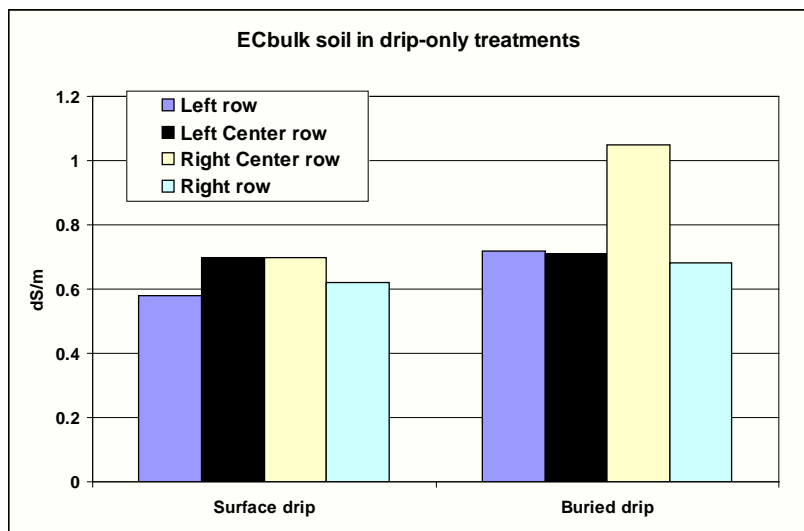
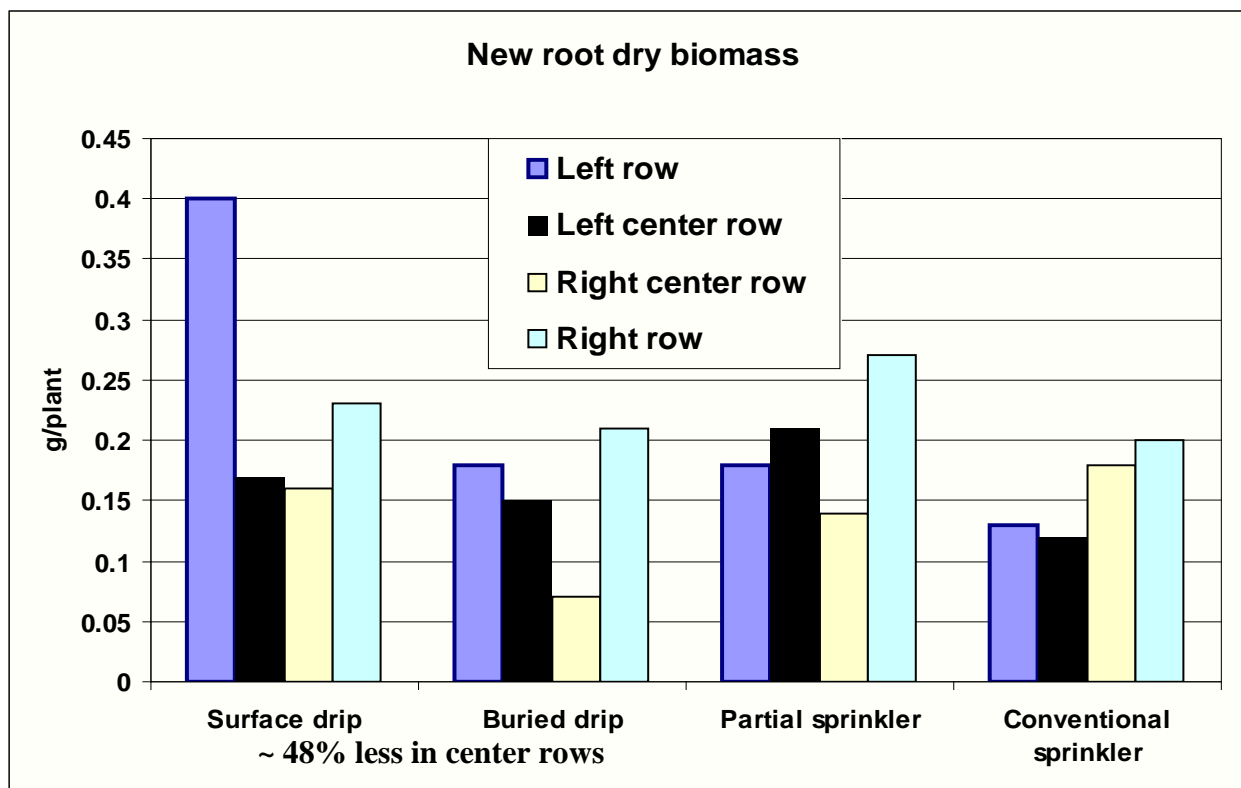


13. Was new root production uniform among plants in all irrigation treatments?

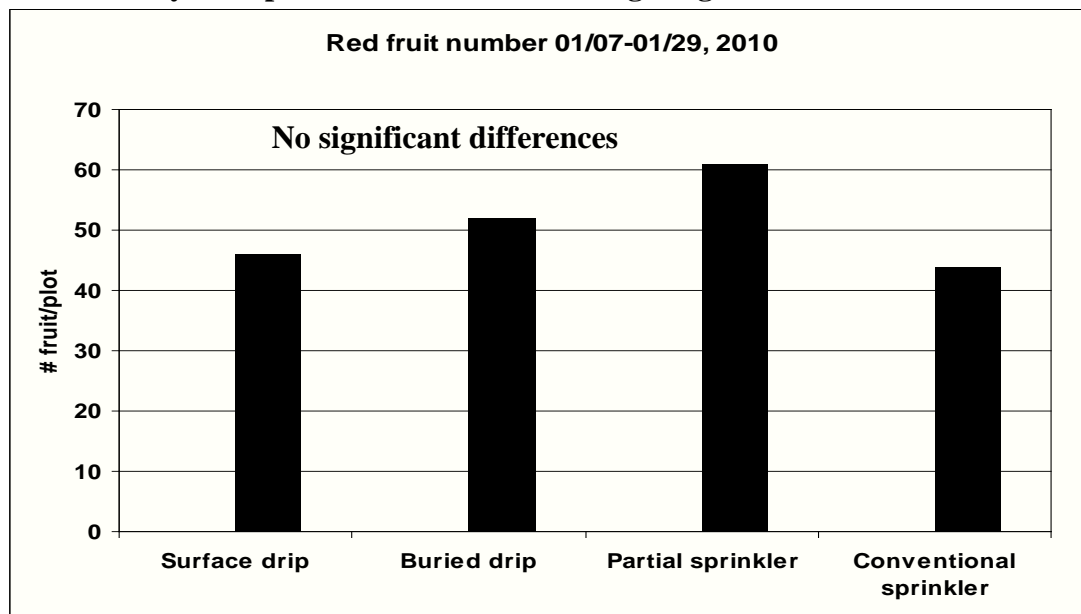
Coefficient of variation,	%
Surface drip	33
Buried drip	58
Partial sprinkler	44
Conventional sprinkler	33

#### 14. Did plant placement within the bed affect new root development?

No differences for conventional and partial sprinkler but less root mass in drip-only treatments in central rows.



**15. Was early fruit production different among irrigation treatments?**



**16. Was the weather typical in October and November 2009?**

Parameter	2009 <sup>z</sup> (Oct. 1- Nov. 30)	Historical (Oct. 1 – Nov. 30)
Total precipitation	1.21 inches	2.16 ± 1.29 inches (1978-2008, Camarillo) <sup>y</sup>
Air temperature (average)	Max. 74 °F Min. 48 °F	Max. 73 °F Min. 50 °F (1923-2002, Oxnard) <sup>x</sup>
Wind speed	3 mph	6 mph (1996-2006, Camarillo) <sup>x</sup>
Number of days with east winds ≥ 5 mph	7	4  (in 2008 =11, in 2007= 2days with 12-13 mph winds) (2000-2008, Camarillo) <sup>z</sup>

<sup>z</sup> <http://169.237.140.1/calludt.cgi/WXSTATIONDATA?STN=CAMARILLO.A>

<sup>y</sup> [http://portal.countyofventura.org/portal/page?\\_pageid=876,1686932&\\_dad=portal&\\_schema=PORTAL](http://portal.countyofventura.org/portal/page?_pageid=876,1686932&_dad=portal&_schema=PORTAL)

<sup>x</sup> <http://www.wrcc.dri.edu/CLIMATEDATA.html>