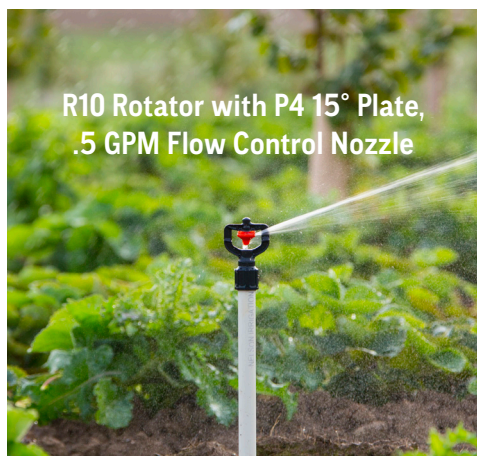




FULL COVERAGE IRRIGATION FOR HAZELNUTS & OTHER ORCHARD CROPS



R10 ROTATOR®



R10 Rotator with P4 15° Plate,
.5 GPM Flow Control Nozzle



FULL COVERAGE IRRIGATION PROVIDES MANY BENEFITS FOR HAZELNUT GROWERS, INCLUDING:

- The ability to grow a revenue-generating field crop between the tree rows from the very first year.
- Maximize root development and tree stability.
- Larger and more productive trees.
- In times of drought, replace the water where the roots are expecting it.
- Encourage broad nutrient access all season long.
- Save water and energy by limiting deep percolation.

NOTE: Nelson Flow Control Nozzles allow longer tube runs while maintaining desired flow rates at each sprinkler

TO ORDER A ROTATOR® FULL COVERAGE IRRIGATION SYSTEM FOR HAZELNUTS SPECIFY THE FOLLOWING:

#9587-602 R10 ROTATOR SPRINKLER

R10 with Acme Thread, P4 15° Orange Plate, .50 10FC Flow Control Nozzle
(Additional flow rates & stream trajectories available.)

#11284-22130 1/2 PVC-5 STAKE & TUBE ASSEMBLY*

1/2" PVC stake 21" (hole 9.5" from top), PVC stake adapter, 5 mm x 30" tube w/ barb (assy)
(Other stake & tube assemblies available.)

*Tube lengths up to 48" available.



Hazelnut trees have an active root area in the upper soil levels, and draw most of their summer water from the top 2' of rooting depth. A Full Coverage System with the Nelson R10 Rotator® allows hazelnut growers to irrigate all of the rooting area, through the low precipitation months of April-October.

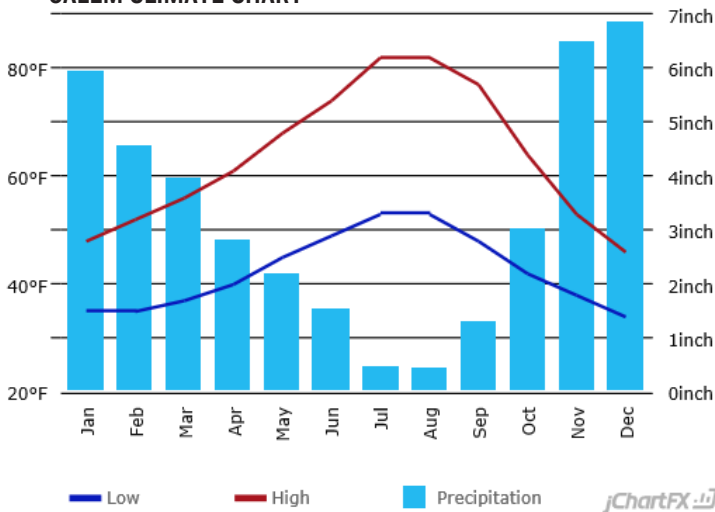
REGION: 5 Willamette Valley
CROP: Filberts

WATER USAGE OF FILBERT TREES BY MONTH*

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.
March	38 (1.50)	1 (0.04)	39 (1.54)	1 (0.04)	40 (1.57)	1 (0.04)	42 (1.65)	1 (0.04)	43 (1.69)	2 (0.08)	45 (1.77)	2 (0.08)
April	73 (2.87)	5 (0.20)	75 (2.95)	6 (0.24)	76 (2.99)	7 (0.27)	78 (3.07)	24 (0.94)	82 (3.23)	37 (1.46)	84 (3.31)	44 (1.73)
May	116 (4.57)	51 (2.01)	117 (4.61)	59 (2.32)	120 (4.72)	66 (2.60)	122 (4.80)	75 (2.95)	125 (4.92)	89 (3.50)	128 (5.04)	100 (3.94)
June	152 (5.98)	103 (4.06)	155 (6.10)	114 (4.49)	158 (6.22)	123 (4.84)	160 (6.30)	132 (5.20)	162 (6.38)	142 (5.59)	162 (6.38)	148 (5.83)
July	186 (7.32)	175 (6.89)	188 (7.40)	181 (7.13)	190 (7.48)	186 (7.32)	192 (7.56)	191 (7.52)	195 (7.68)	195 (7.68)	203 (7.99)	201 (7.91)
Aug	152 (5.98)	140 (5.51)	157 (6.18)	144 (5.67)	159 (6.26)	149 (5.87)	161 (6.34)	154 (6.06)	164 (6.46)	163 (6.42)	167 (6.57)	167 (6.57)
Sep	111 (4.37)	65 (2.56)	112 (4.41)	72 (2.83)	113 (4.45)	80 (3.15)	117 (4.61)	89 (3.50)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)
Oct	53 (2.09)	3 (0.12)	53 (2.09)	4 (0.16)	54 (2.13)	5 (0.20)	55 (2.17)	6 (0.24)	58 (2.28)	18 (0.71)	58 (2.28)	45 (1.77)
Nov	14 (0.55)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)
Season	895 (35.23)	543 (21.39)	913 (35.95)	581 (22.88)	927 (36.49)	627 (24.69)	944 (37.17)	672 (26.45)	966 (38.04)	751 (29.57)	985 (38.77)	820 (32.28)

*Source — <https://catalog.extension.oregonstate.edu/sites/catalog.extension.oregonstate.edu/files/project/pdf/em8530.pdf>

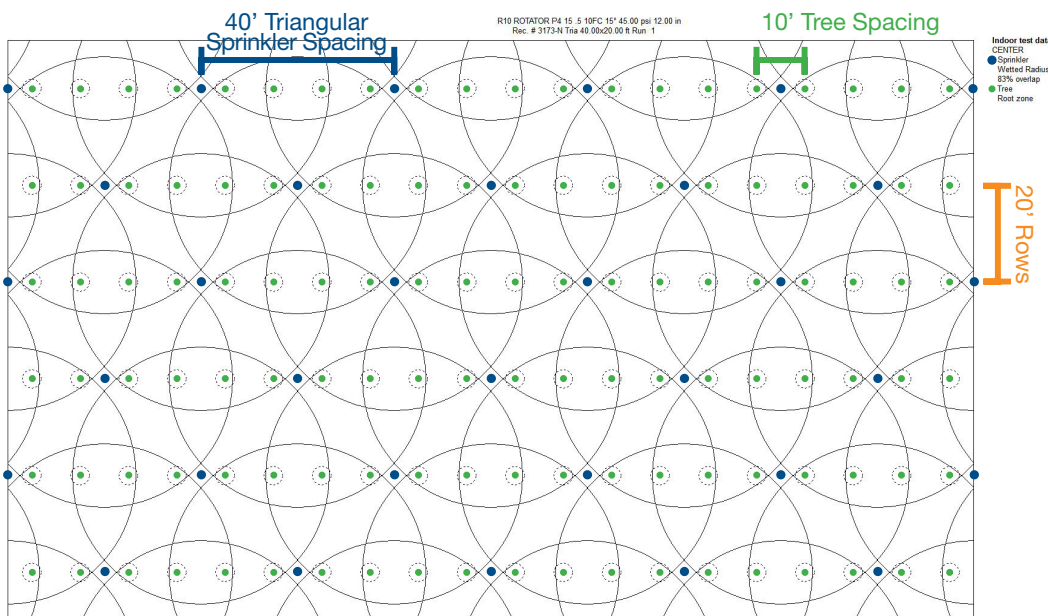
SALEM CLIMATE CHART**



In looking at the chart above note that filbert trees need significant watering in June, July and August. The Salem Climate graph on the left shows that the precipitation that occurs in the summer months does not meet the water requirements.

**Source — <http://www.usclimatedata.com/climate/salem/oregon/united-states/usor0304>

COMMON HAZELNUT TREE/SPRINKLER SPACINGS



REACH ALL YOUR ROOTS!

Use Rotator® Full Coverage Irrigation to grow a hearty tree with a wide root base and large caliper.

NELSON
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