



256 Aberdeen Road W
Lethbridge, AB T1J 0N2

Telephone. (403) 328-5856
Facsimile. (403) 328-5854
Mobile. (403) 360-5857
tom@bluegrassltd.ca • www.bluegrassltd.ca

Comparison of Three Row vs. Two Row Fairway Sprinkler Design

Three Row Design @ 70' Spacing		Two Row Design @ 90' Spacing
	(1) Area of Coverage	
250'	Total Width of Spray Pattern	250'
121'	Width of Uniform Coverage	78'
	(2) Sprinkler Performance	
.70 inches / hour	Application Rate of Sprinklers	.70+ inches / hour
Approx. 30 GPM's	Flow Rate of Sprinklers	Min. of 50 GPM's
15 minutes	Run Time per night to apply 1.25" / week	15 minutes
70 - 80 psi	Pressure Required to Efficiently Operate Sprinklers	Minimum of 80 psi
Greater	Ability to Perform in Wind & Slope Conditions	Less
Greater	Ability to Adjust Irrigation thru Central Control	Less
Excellent	Distribution Uniformity (DU) * ¹	Varies
1.1	Scheduling Coefficient (SC) * ²	Varies
	(3) Cost	
More	Installation – Capital Cost	Less
Less	Long Term – Operating Costs	More
Same	Mainline Size & Pump Capacity Required	Same
Less	Pumping Time Required per Irrigation Cycle	More

Notes:

- (1) Distribution Uniformity (DU) is measured as a percentage. It indicates how closely the driest area compares to the average precipitation rate of the irrigated area. DU is influenced by sprinkler type, water pressure, sprinkler spacing, wind conditions, slope of the sprinkler and interference of the spray pattern.
- (2) Scheduling Coefficient (SC) is a ratio used to increase the sprinkler run time to provide adequate water to the driest part of the irrigated area.