

Precision Managed Drip Irrigation

By Doug Stanko





- My Family/Team
- Minimum Till Irrigation Farmer
- Farm in Bow River Irrigation
 District
- First new Pringle pivot
- Running 4 PMDI Systems

Trying to understand the best/economical way to irrigate

Win the pivot rut war





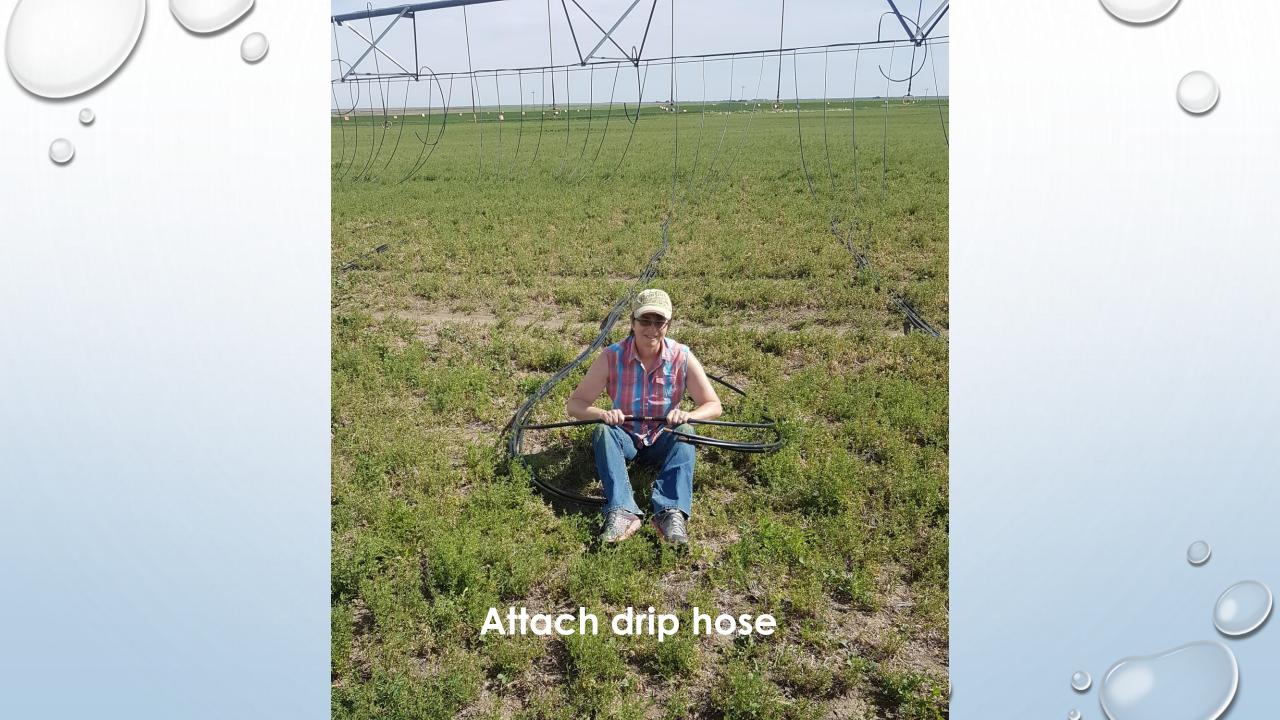


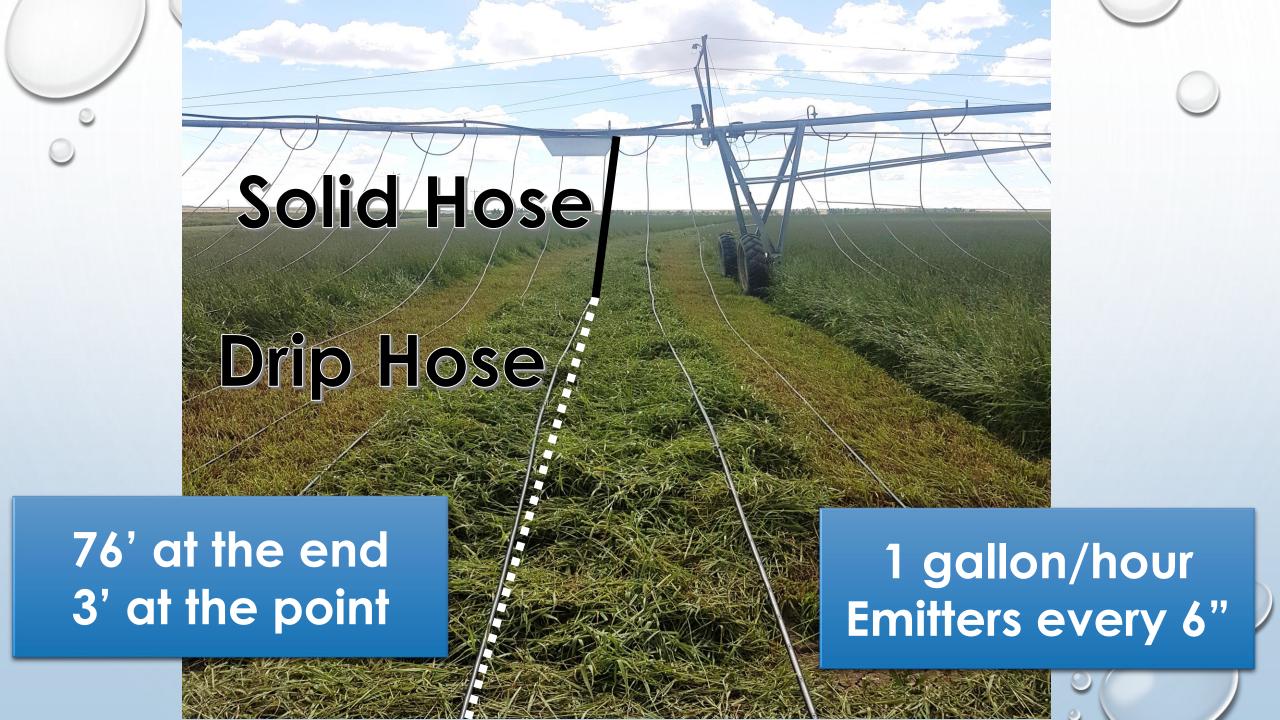






Attach 20' solid hoses to the tees to get to the ground and behind the pivot





Manifold	15" Centers	1,300'	\$0.09	\$117
Solid Hose	1040 lines at 20'	20,800'	\$0.09	\$1,872
Drip Hose	700 gpm system	21,000'	\$0.45	\$9,450

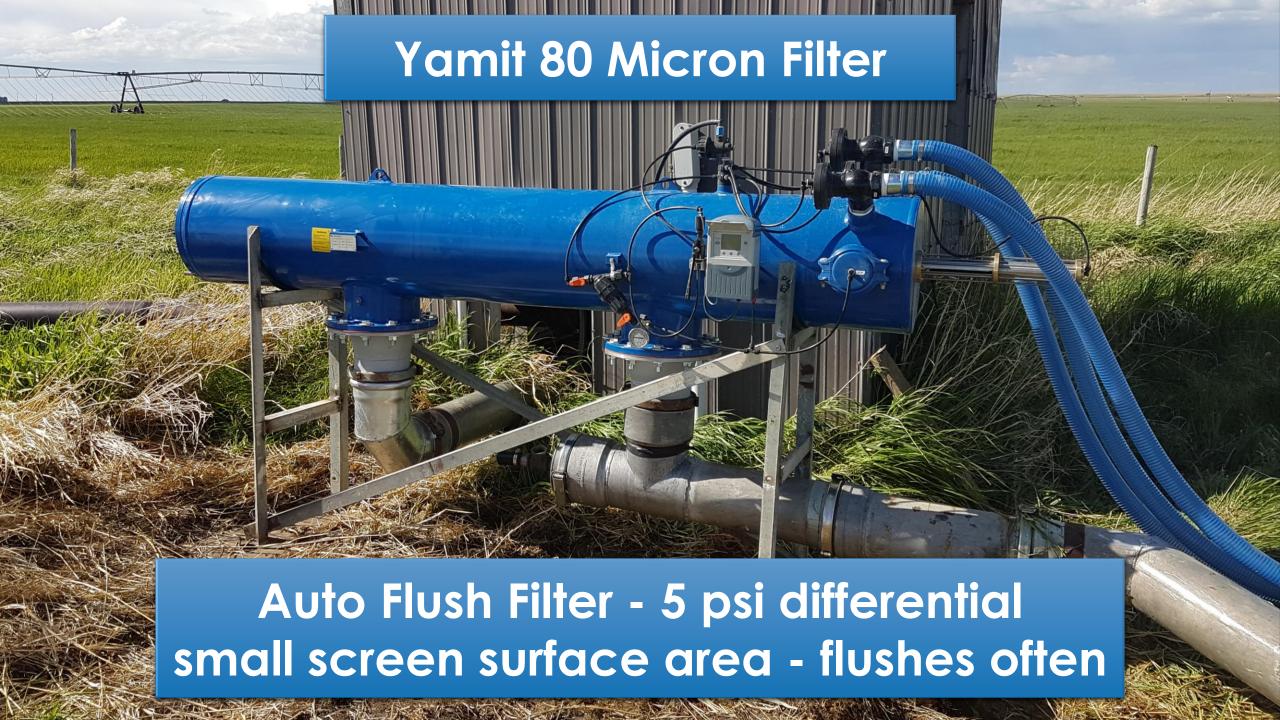
Total Hose	Hose Cost	
8 plus miles	\$11,439	













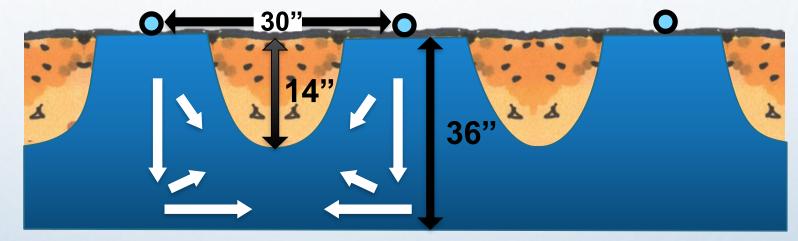




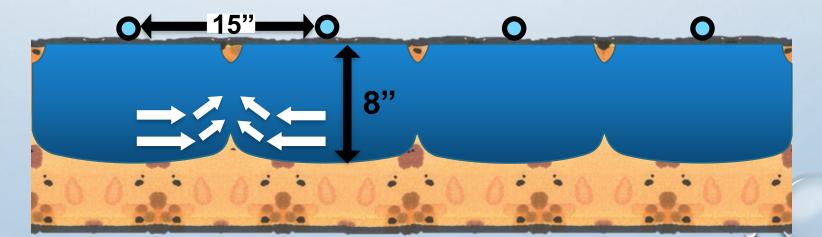




Application Rate 0.3 inch Application Rate 1.0 inch



Application Rate 0.6 inch





















Disadvantages

- OVERALL COST
- WATER FILTRATION
- COYOTE DAMAGE
- HANGING THE HOSES FOR WINTER
- WHIPPING HOSES IN THE WIND WHEN PIVOT IS OFF
- PARKING THE PIVOT TO SWATH



Advantages

- WATER EFFICIENCY
 - HIGH WATER EFFICIENCY WHEN WATERING ON WINDY OR HOT DAYS
 - BETTER WATER INFILTRATION
 - EVEN WATERING IN ALL TERRAIN = LESS NEED FOR VRI
 - LESS WATER REQUIREMENT
- SOIL STRUCTURE COMPROMISED LESS
- LESS WATERING = LOWER ENERGY COST
- BETTER WATER MANAGEMENT FOR THE POSSIBILITY OF MORE WATER RIGHTS
- FERTIGATION EFFICIENCIES
- PIVOT RUNNING ON DRY GROUND
- WATERING DURING FLOWERING
- BETTER OVERALL PLANT HEALTH



