

# Irrigation systems

3/10/2024

<u>Pressure</u>		<u>Type of plant</u>		<u>Costs</u>
High Pressure 30-60 psi	HP	Trees	T	\$
Low Pressure 20-35 psi	LP	Garden	G	\$\$
No Pressure	FF	Bushes	B,R,S	\$\$\$
gravity feed,rainwater		Grass-grd.covr	GC	\$\$\$\$

	<u>Type of Irrigation</u>	<u>Advantages</u>	<u>Down-side</u>	<u>Best Use</u>	<u>Pressure</u>	<u>Cost</u>
<b>Easiest, cheapest</b>						
1	Hose, spinkler, timer	LC, Quick	Limited Coverage Multiple settings	G,B,GC	HP, LP	\$
<b>Systems</b>						
2	PVC, Auto timer Fittings, valves, adapters Buy at HD,Lowes	HP, LP, FF Initial installation takes more time	Must protect pipe Best when buried Will burst if frozen	T,G,B	HP, LP	\$\$
3	PVC,valve,fittings,timer	Adjust at each outlet	Should be buried	Trees	HP,LP,FF	\$\$
4	PVC, fittings,lawn sprklrs Pu Walmart,HD, Lowes	Waters ground & foliage Large water distribution	Covers more area If used in G's weeds get watered too Requires trenching	GC, G	HP	\$\$\$
5	1/2 black polypipe with drippers/sprays/fittings Buy at HD, Lowes	Quick installation Good water volume and water distribution	# of feeds limited On top of ground or buried	T,G,B small plants	HP,LP	\$ -\$\$
6	PVC, polypipe, & soaker soaker,timer,fittings Mr. Drip, google	Control water volume Place water at base of plant, used min.water Wind doesn't matter	Low Pressure hose High Pressure hose Hard water will build-up, 2-3yrs life	All	HP, LP	\$\$\$

## **Notes:**

PVC pipe and fittings require gravity drainings to empty lines, sprinklers in the winter  
 All sprays, and sprinklers are affected by medium to high winds  
 All drippers will require cleaning with paper clip every 1 to 2 years  
 Timers are available in low voltage for low volume use. For outside use close to useage.  
 Auto timers running HP and LP will require 110V stepdown to lower voltage and a 4 to 6 conductor UG wire  
 Auto timers require underground Low voltage valves & direct burial wire.. Available in 4, 6, & 8 zones.  
 Underground valves must be protect with a 8" to 12" buried box with above surface lid.