Design Data Form

Print out or copy this form for recording your design information on. It will make the design process much easier for you.

Fill in the following items as you work through the sprinkler design tutorial.

For "City Slickers" (Water from water company):

Design Pressure ________ PSI

Supply Pipe Size ________

Water Meter Size ________

Maximum Available GPM ________ GPM

Initial Design Flow ________ GPM (use pencil, may need to change)

For "Country Bumpkins" (Water pumped from well, pond, river, etc.):

Dry Method:

(A) Pump Horsepower ________ H.P.
(B) Dynamic Water Depth ________ ft.
(C) Elevation Difference ________ ft.
(D) Elevation Head ________ ft. (formula: B + C = D )
(E) Design Pressure ________ PSI.
(F) Design Head ________ ft. hd. (formula: E * 2.31 = F )
(G) Total Pressure Head ________ ft. hd. (formula: D + F = G )
(H) Initial Design Flow ________ GPM (formula: A * 2178 / G = H )

Wet Method:

(I) Design Pressure ________ PSI.
(J) Initial Design Flow ________ GPM

Country Bumpkins: Don't forget that "Valve Zone GPM should be between 80% and 100% of Design Flow".

For "Backwoods Water" (Gravity flow systems from streams, tanks, etc.):

Maximum GPM ________ PSI

Tank Inflow GPM ________ GPM (only for those with tanks)

Initial Design Pressure ________ PSI

For everyone:

**Pressure Loss Table**

_________ PSI - Water Meter

_________ PSI - Backflow Preventer

_________ PSI - Filter (Optional, but recommended)

_________ PSI - House Mainline 1 (from water source to water meter)

_________ PSI - House Mainline 2 (from water meter to irrigation connection)

_________ PSI - Irrigation Mainline (from irrigation connection to valves)

_________ PSI - Valves

_________ PSI - Elevation Change

_________ PSI - Sprinkler Heads

_________ PSI - Laterals (maximum 20% of sprinkler head value above)

_________ PSI - TOTAL PRESSURE LOSS

Note that not all of the items in the list above may be applicable to your system.