

EQUATION OF PIPES

It is frequently desired to know what number of pipes of a given size are equal in carrying capacity to one pipe of a larger size. At the same velocity of flow the volume delivered by two pipes of different sizes is proportional to the squares of their diameters; thus one 4" pipe will deliver the same volume as four 2" pipes. With the same pressure however the velocity is less in the smaller pipe and the volume delivered varies as the square root of the fifth power of the pipe diameter. The table below is calculated on this basis.

The figure opposite the intersection of any two pipe sizes is the number of the smaller sized pipes required to equal one of the larger sized pipe; thus on 4" pipe will deliver 5.70 times as much water as one 2" pipe.

Pipe Diameter	1"	2"	3"	4"	6"	8"
1"	1					
2"	5.7	1				
3"	15.6	2.8	1			
4"	32.0	5.7	2.1	1		
6"	88.2	15.6	5.7	2.8	1	
8"	181.00	32.0	11.7	5.7	2.1	1

NOTE: One 3" pipe will deliver more water than one 2½" pipe PLUS one 2" pipe.

A 1" hose will deliver more than TWICE the water than two ¾" hoses of equal length.

C. E. (Scotty) Stewart

THE SOD GROWERS ASSN. OF MID-AMERICA ANNOUNCES

The establishment of turf grass at the Morton Arboretum in Lisle, Ill. has been undertaken by our Association. The purpose of the plots is to demonstrate and evaluate various turf grasses. This will be a valuable service to the public in that they could see a comparison of the various turf grasses presently available.

Plans are currently being made to construct the plots this summer. Twelve bluegrass varieties have been proposed to be initially planted in the plots: Merion, Delta, Common Kentucky, Newport, Windsor, Fylking, A-10, A-20, A-34, Pennstar, Sodco and Blend. Sod will be used where possible. If any sod grower has sod available of Common Kentucky, Newport, Pennstar, Sodco or Bland (please specify percentage of varieties in blend), please notify the secretary of the Association.

Each variety is to be planted into two replications of 100 square yards each. One replication will be grown under high maintenance, the other under low maintenance. All plots will be mowed at two different heights: a low cut and a high cut. The high maintenance series shall be mowed more frequently, receive irrigation, be fertilized regularly and have the weeds controlled when needed.

Additional ground will be available for future expansion of plots for new varieties.

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