Section 2 of 22 (2f - Soils Intake Guide)

Acre-Inches applied	Soils Intake Family								
	0.1	0.3	0.5	0.75	1.0	1.25	1.5	1.75	2.0
	Approximate time for the applied depth to infiltrate *(Hours)*								
1	2.8	1.0	0.63	0.48	0.33	0.28	0.23	0.2	0.18
2	10.5	3.5	2.0	1.5	1.0	0.8	0.7	0.6	0.52
3	22.3	6.8	3.8	2.8	1.8	1.5	1.2	1.1	0.9
4	34.0	10.0	5.5	4.1	2.6	2.2	1.8	1.6	1.33
5	49.0	14.0	7.6	5.6	3.6	3.0	2.4	2.2	1.78

Acre-Inches applied: By knowing the:

- Irrigation flow rate (Q = cfs) (cubic feet per second)
- Irrigation time set (T = hours)
- And area irrigated (A = acres)

You can calculate the acre-inches applied (D = QT/A). Where D is equal to the depth of application in inches.

Soils Intake Family: The intake family number of a soil relates the time required to infiltrate a given quantity of water in a specific soil type. Since the intake rate of the soil decreases as more water is applied, the family designation (e.g., 0.1, 05, 1.0, 1.5,…) reflect the final intake rate of the soil.

Time (Hours): This is the total hours required (i.e., Opportunity Time) for the given Irrigation application amount to infiltrate into the soil for a specific Intake Family. The times shown in the table do not reflect the total time of the irrigation set.

NOTE: The intake rate of the soil under irrigation is affected by many factors such as: Soil Texture, Soil Structure, Compaction, Organic Matter, Stratified Soils, Salts in the soil, Water Quality, Sediments in the irrigation water, etc. Therefore, the above times can very for a given application depth and intake family number. rudy.garcia.2009

Agronomy Tech Note 76 (http://www.nm.nrcs.usda.gov/technical/handbooks/iwm/nmiwm.html)