

Journey School, Aliso Viejo CA

Rainwater Catchment Areas & Their Average Annual Rainfall Incomes

<u>Givens:</u>	Aliso Viejo's average annual rainfall (inches):	12.60
	Aliso Viejo's average annual rainfall (feet):	1.05
	Gallons in one cubic foot:	7.48
	Gallons of rain that fall on one square foot of Aliso Viejo in a year:	7.854

Rainwater Catchment by Location (see map) (**bold** indicates triangular catchment area)

	<u>Scale Height</u>	<u>Scale Width</u>	<u>Scale Area</u>	<u>Square Feet</u> *	<u>Rain (gal/yr)</u>
A1	0.37	0.48	0.18	3,001	23,570
A2	0.46	0.29	0.13	2,254	17,703
A3	0.7	0.25	0.18	2,958	23,232
A4	0.17	0.35	0.06	1,006	7,901
A5	0.35	0.08	0.03	473	3,715
A6	0.35	0.15	0.05	887	6,966
A7			0.00	0	0
A8			0.00	0	0
A9			0.00	0	0
A10			0.00	0	0
A11			0.00	0	0
A12			0.00	0	0
A13			0.00	0	0
A14			0.00	0	0
A15			0.00	0	0
A16			0.00	0	0
A17			0.00	0	0
A18			0.00	0	0
A19			0.00	0	0
A20			0.00	0	0
A21			0.00	0	0
A22			0.00	0	0
A23			0.00	0	0
A24			0.00	0	0
A25			0.00	0	0
A26			0.00	0	0
A27			0.00	0	0
A28			0.00	0	0
A29			0.00	0	0
A30			0.00	0	0

Total Roof Catchment Area & Rainfall:

10,579
square feet

83,087
gallons of rain/yr

Journey School, continued

B1	1.48	1.44	2.13	36,017	282,878
B2	1.84	2.35	4.32	73,076	573,939
B3	0.52	0.81	0.42	7,118	55,905
B4	1.02	1.54	1.57	26,547	208,500

Total Hardscape Catchment Area & Rainfall:

142,758 square feet **1,121,222** gallons of rain/yr (incl A1-29)

C1	1.79	2.42	2.17	36,673	288,030
C2	2.42	5.41	13.09	221,258	1,737,760

Total Campus-Wide Catchment Area & Rainfall:

257,931 square feet **2,025,790** gallons of rain/yr (incl A & B)

Measured length of scale ruler (in): 2.5 Number of feet represented: 325

*Therefore, one **square** inch represents 16,900 **square feet**