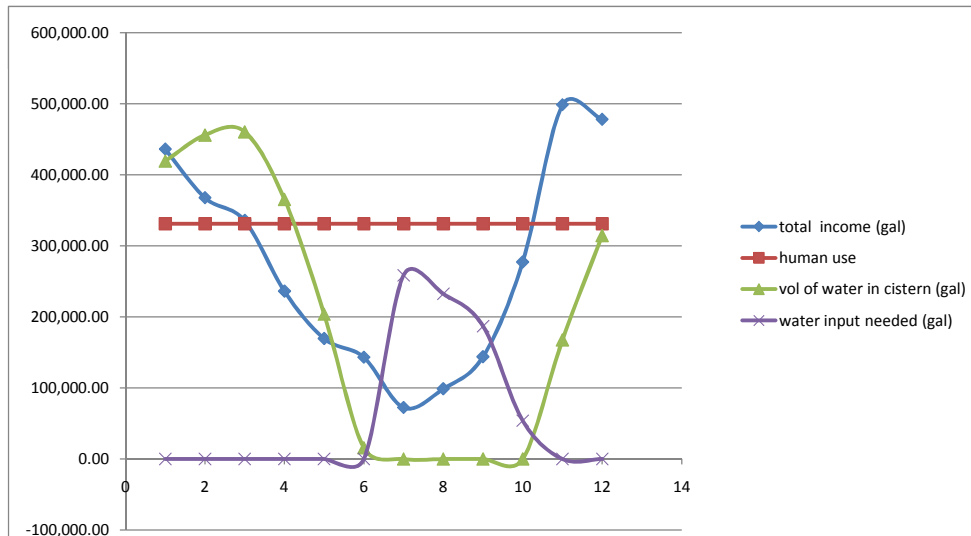


Auburn Junction

total area 170000 sf
 building area (1 building) 33000 sf
 total roof area 132000 sf
 total road area 38000 sf

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<i>rainfall in Auburn, WA</i>													
Inch/sf	5.3	4.47	4.08	2.87	2.06	1.74	0.88	1.2	1.75	3.37	6.06	5.81	39.59
total water on roof (gal)	436,114.32	367,817.17	335,725.74	236,160.02	169,508.58	143,177.15	72,411.43	98,742.86	144,000.01	277,302.88	498,651.46	478,080.03	3,257,691.65
total water on road (gal)	125,548.06	105,886.76	96,648.32	67,985.46	48,797.93	41,217.67	20,845.72	28,425.98	41,454.55	79,829.62	143,551.18	137,629.10	937,820.32
total income (gal)	561,662.38	473,703.93	432,374.06	304,145.48	218,306.51	184,394.82	93,257.15	127,168.84	185,454.56	357,132.49	642,202.64	615,709.13	4,195,511.98
<i>human use</i>													
LEED 2009 retail+office+residents (gal)	331,165.31	331,165.31	331,165.31	331,165.31	331,165.31	331,165.31	331,165.31	331,165.31	331,165.31	331,165.31	331,165.31	331,165.31	3,973,983.75
<i>storage requirements</i>													
vol of water in cistern (gal)	419,349.87	456,001.73	460,562.16	365,556.86	203,900.13	15,911.97	0.00	0.00	0.00	0.00	167,486.15	314,400.87	460,562.16
water input needed (gal)	0.00	0.00	0.00	0.00	0.00	0.00	258,753.88	232,422.45	187,165.30	53,862.44	0.00	0.00	732,204.07



human use

	baseline design	efficient design: low flow toilets + showers
commercial	2.00 stories	2.00 stories
total surface (1 building)	66,000.00 sf	66,000.00 sf
people	825.00	825.00 FTE + TO
total water use (LEED 2009)	153,664.09 gal/year	131,501.29 gal/year
office	2.00 stories	2.00 stories
total surface (1 building)	66,000.00 sf	66,000.00 sf
people	330.00	330.00 FTE + TO
total water use (LEED 2009)	404,157.60 gal/year	345,866.40 gal/year
residential	1.00 story	1.00 story
total surface (1 building)	33,000.00 sf	33,000.00 sf
people	66.00 residents	66.00 residents
total water use (LEED 2009)	631,760.25 gal/year	516,128.25 gal/year
total human use/building	1,189,581.94 gal/year	993,495.94 gal/year
total human use	4,758,327.75 gal/year	3,973,983.75 gal/year
		saving: 784,344.00 gal/year
		enough for watering more that 10,000 green boxes!

energy use

energy consumption for all buildings:	electric		fuel
retail	3,828,000.00 kWh/year		3,828,000.00 kBtu/year
office	3,088,800.00 kWh/year		3,088,800.00 kBtu/year
residential	1,663,200.00 kWh/year		1,663,200.00 kBtu/year
total	8,580,000.00 kWh/year		8,580,000.00 kBtu/year
	\$ 780,398.19 \$/year		57,400.20 \$/year

solar panel	\$ 117,059.73 \$ off /year
percentage of total energy	15.00%
insolation On Auburn	3.57 h/day
total power needed	987.68 kW
total surface needed	89,789.34 sf
total cost of the system	\$ 7,901,462