

## Water Consumption Data

Top Off System Water					Wet Wall Water			Total	GrowHaus Water and Sewer Use				Floursh Farms Water and Sewer Use			
Date	Days since last reading	Top Off Water Meter reading	Total gallons	Daily actual gallons	Wet Wall Meter reading	Total gallons	Daily actual gallons	Flourish Farm Total Gallons Used	GrowHaus (Gallons) From Utility Bill	GrowHaus Water Bill	GrowHaus Sewer Bill	GrowHaus Total Water and Sewer	Flourish Farm % of GrowHaus	Flourish Farm Water bill	Flourish Farm Sewer Bill	Flourish Farm Total Water and Sewer
1/27/2015	29	79,577	2,900	100	63,962	0	0	2,900	13,000	\$47.12	\$59.87	\$106.99	22%	\$10.51	\$13.36	\$23.87
2/28/2015	32	81,577	2,000	63	63,962	0	0	2,000	16,000	\$54.74	\$69.92	\$124.66	13%	\$5.31	\$8.74	\$14.05
3/30/2015	30	85,310	3,733	124	65,991	2,029	68	5,762	19,000	\$42.46	\$69.92	\$112.38	30%	\$12.88	\$21.20	\$34.08
4/30/2015	31	90,236	4,926	159	70,639	4,648	150	9,574	42,000	\$85.70	\$154.56	\$240.26	23%	\$19.54	\$35.23	\$54.77
6/2/2015	33	97,229	6,993	212	73,736	3,097	94	10,437	43,000	\$168.42	\$158.24	\$326.66	24%	\$40.88	\$158.24	\$38.41
7/2/2015	30	100,557	3,328	111	80,423	6,687	223	10,416	47,000	\$183.46	\$172.89	\$356.35	22%	\$40.66	\$38.32	\$78.97
8/4/2015	33	108,445	7,888	239	89,024	8,601	261	16,983	75,000	\$288.74	\$283.50	\$572.24	23%	\$65.38	\$64.20	\$129.58
9/5/2015	32	113,871	5,426	170	95,165	6,141	192	11,871	66,000	\$254.90	\$249.48	\$504.38	18%	\$45.85	\$44.87	\$90.72
10/6/2015	31	118,663	4,792	155	102,341	7,176	231	12,438	70,000	\$133.06	\$197.25	\$330.31	18%	\$23.64	\$26.46	\$50.10
11/8/2015	33	126,217	7,554	229	103,718	1,377	42	9,157	35,000	\$89.54	\$182.47	\$272.01	26%	\$23.43	\$126.59	\$150.01
12/4/2015	26	131,943	5,726	220	103,718	0	0	6,054	31,000	\$65.02	\$117.18	\$182.20	20%	\$12.70	\$22.88	\$35.58
<b>2015 Total</b>			<b>55,266</b>	<b>162</b>		<b>39,756</b>	<b>126</b>	<b>97,592</b>	<b>457,000</b>	<b>\$1,413.16</b>	<b>\$1,715.28</b>	<b>\$3,128.44</b>		<b>\$300.76</b>	<b>\$560.09</b>	<b>\$700.14</b>
1/7/2016	34	136,103	4,160	122	103,718	0	0	4,421	17,000	\$38.70	\$64.26	\$102.96	26%	\$10.06	\$16.71	\$26.78
2/5/2016	29	139,860	3,757	130	103,718	0	0	4,193	17,000	\$38.70	\$64.26	\$102.96	25%	\$9.55	\$15.85	\$25.39
3/5/2016	29	147,386	7,526	260	103,718	0	0	7,892	14,000	\$33.06	\$52.95	\$86.01	56%	\$18.64	\$29.85	\$48.49
4/9/2016	35	155,240	7,854	224	105,722	2,004	57	10,118	29,000	\$61.26	\$109.62	\$170.88	35%	\$21.37	\$38.25	\$59.62
5/12/2016	33	161,007	5,767	175	107,149	1,427	43	7,419	36,000	\$113.60	\$136.08	\$249.68	21%	\$23.41	\$28.04	\$51.45
6/5/2016	24	166,544	5,537	231	114,371	7,222	301	12,909	39,000	\$134.98	\$147.42	\$282.40	33%	\$44.68	\$48.80	\$93.47
7/1/2016	26	170,980	4,436	171	120,750	6,379	245	10,858	54,000	\$191.23	\$204.12	\$395.35	20%	\$38.45	\$41.04	\$79.49
8/3/2016	33	177,033	6,053	183	134,316	8,877	269	15,245	87,000	\$361.66	\$385.09	\$746.75	18%	\$63.37	\$67.48	\$130.85
9/2/2016	30	182,613	5,580	186	143,046	8,730	291	14,310	78,000	\$294.78	\$302.47	\$597.25	18%	\$54.08	\$55.49	\$109.57
10/6/2016	34	188,019	5,406	159	148,180	5,134	151	10,540	69,000	\$267.31	\$298.41	\$565.72	15%	\$40.83	\$45.58	\$86.42
11/1/2016	26	191,945	3,926	151	149,376	1,196	46	5,122	37,000	\$109.78	\$154.87	\$264.65	14%	\$15.20	\$21.44	\$36.64
12/4/2016	33	196,763	4,818	146	149,376	0	0	4,818	29,000	\$67.89	\$116.99	\$184.88	17%	\$11.28	\$19.44	\$30.72
<b>2016 Total</b>			<b>64,820</b>	<b>178</b>		<b>40,969</b>	<b>128</b>	<b>107,845</b>	<b>506,000</b>	<b>\$1,712.95</b>	<b>\$2,036.54</b>	<b>\$3,749.49</b>		<b>\$350.92</b>	<b>\$427.97</b>	<b>\$778.89</b>

Note: Because of the commercial water tap installed, and the fact that there are bathrooms on the premises, Denver water uses the total number of water gallons used to calculate total sewer consumption. However, the sewer usage is significantly less because water that goes into the Flourish Farms Aquaponic System is not discharged into the sewer.

Total GrowHaus water consumption includes filling Hydrofarm reservoirs, Hydrofarm wet wall, sinks, bathrooms, dishwasher, laundry, cleaning, and outside landscaping. GrowHaus use of the sewer line is for bathrooms, dishwasher, laundry machine, sinks and very occasional shower, likely less than 10% of the water volume total for actual sewer usage.

Water consumption in the summer months is higher since the plants are consuming more water during the longer daylength and growth as well as more transpiration.

Wet wall consumption is typically only during the summer months as the temperature can be maintained in the colder seasons just using the vent wall and air flow.

System water top offs do not typically occur on a daily basis (although there is a float valve installed). Instead when the water level gets low, the water is turned on and run for a number of hours to top-off the system.

Water meters are installed in the Flourish Farms portion of GrowHaus to individually record system top-off water and wet wall water usage.