

**HELENDALE CSD SILVER LAKES WWTP  
EFFLUENT AND CROP NITROGEN REPORT**

**2020**

ALFALFA	SUDAN	MIX	
0.6	0.4		Percent Mix
36.3	0.0	33.7	lb N/ac/month
6.7	0.0	7.3	tn yield/ac/yr
65.0	40.0	55.0	lb N uptake/tn yield

Month	Crops Planted	UA 1A (ac)	UA 1B (ac)	UA 1C (ac)	UA 1 Subtotal (ac)	UA 2 (ac)	TOTAL (ac)	Effluent to Crops (MGD)	N Conc (mg/l)	Effluent N to Crops (lb)	Fertilizer N (lbs)	Total N to Crops (lbs)	Crop N Uptake (lbs)
January	Alfalfa		12.6	16.6	29.2		29.2	0.213	23.49	1294	-	1,294	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.134	23.49	814	-	814	620
	No Crop				12.4	31	43.4				-		
February	Alfalfa		12.6	16.6	29.2		29.2	0.231	23.49	1312	-	1,312	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.146	23.49	829	-	829	620
	No Crop				0	31	31				-		
March	Alfalfa		12.6	16.6	29.2		29.2	0.226	23.49	1373	-	1,373	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.142	23.49	862	-	862	620
	No Crop				0	31	31				-		
April	Alfalfa		12.6	16.6	29.2		29.2	0.296	29.8	2207	-	2,207	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.187	29.80	1,394	-	1,394	620
	No Crop				0	31	31				-		
May	Alfalfa		12.6	16.6	29.2		29.2	0.295	29.8	2273	-	2,273	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.187	29.80	1,441	-	1,441	620
	No Crop				0	31	31				-		
June	Alfalfa		12.6	16.6	29.2		29.2	0.235	29.8	1752	-	1,752	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.148	29.80	1,103	-	1,103	620
	No Crop				0	31	31				-		
July	Alfalfa		12.6	16.6	29.2		29.2	0.219	10.52	596	-	596	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.139	10.52	378	-	378	620
	No Crop				0	31	31				-		
August	Alfalfa		12.6	16.6	29.2		29.2	0.194	10.52	528	-	528	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.122	10.52	332	-	332	620
	No Crop				0	31	31				-		
September	Alfalfa		12.6	16.6	29.2		29.2	0.196	10.52	516	-	516	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.124	10.52	326	-	326	620
	No Crop				0	31	31				-		
October	Alfalfa		12.6	16.6	29.2		29.2	0.194	33.95	1703	-	1,703	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.122	33.95	1,071	-	1,071	620
	No Crop				0	31	31		0.00		-		
November	Alfalfa		12.6	16.6	29.2		29.2	0.237	33.95	2013	-	2,013	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.149	33.95	1,266	-	1,266	620
	No Crop				0	31	31		0.00		-		
December	Alfalfa		12.6	16.6	29.2		29.2	0.164	33.95	1439	-	1,439	1,059
	Alfalfa/Sudan	18.4			18.4		18.4	0.104	21.01	565	-	565	620
	No Crop				0	31	31		0.00		-		
<b>ANNUAL TOTAL</b>								<b>154.13</b>		<b>27,387</b>	-	<b>27,387</b>	<b>19,530</b>
<b>MONTHLY AVERAGE</b>								<b>0.184</b>	<b>22.05</b>		-	<b>2,282</b>	<b>1,627</b>