Summary of SVGWD 2022 Fallowed Acres by Property Based on Water Right Area, Satellite Imagery, and Climate Engine*

	Acres to be	Fallowed		Acres not	Acres	
Property	Fallowed	in 2022?	Comments RE 2022 Use	Fallowed	Fallowed	Total
Antelope Springs	16.5	YES		0	16.5	16.5
Aubrey Springs	24.9	YES		0	24.9	24.9
Bleckman	11.4	YES		0	11.4	11.4
Drouving	10.7	Destight	A portion of the fallowed pivot corners under end guns appear to be irrigated (about 1 acre per corner). Field check in 2023 to	2	167	10.7
Browning	19.7	Partially	confirm.	3	16.7	19.7
			Both 2022 imagery and Climate Engine/NDVI data support evidence of irrigation in July and fallowing after July for the rest			
Chaney Creek	25	No	of the season. Field visit in 2023 to confirm.	25	0	25
			2022 imagery and NDVI date support evidence of irrigation on 8.5 acres in NESE Sec 28 1N19E. 15.4 of the proposed fallowed acres in W1/2NW 34 1n19E have not been irrigated for many years (at least since 2015) and not eligible for fallowing per Management Plan criteria. Adjust fallowed acres as 111.6-8.5- 15.4 = 87.7. Note that 14 acres in Cove Ranch water rights POU are being irrigated without a water right, in SWNE 28 and SENE			
Cove Ranch	111.6	Partially	17 1N19E. POU cleanup may be necessary.	23.9	87.7	111.6
Dr Beck	8	YES		0	8	8
Hayshed Corners	27.1	YES		0	27.1	27.1
Heart Rock	50	YES YES in part, inconclusive in	2022 Imagery and Climate Engine/NDVI data support evidence of irrigation of the most western and eastern fields in July, and fallowed the rest of the season. Count all acres as fallowed and	0	50	50
Hillside	183.9	part	do field check in 2023 to confirm.	0	183.9	183.9
John Flood	57	YES		0	57	57
John Tedesco	23.9	YES		0	23.9	23.9
Justin End Guns	54.5	No	It appears end guns may not have been shut off. Field visit required for 2023. Credit all 54.5 acres for 2022.	0	54.5	54.5
Lafferty Canyon	22.7	YES		0	22.7	22.7
Long Lands	60.5	NO	Both 2022 imagery and Climate Engine/NDVI supports evidence of irrigation.	60.5	0	60.5

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Property	Fallowed	in 2022?	Comments RE 2022 Use	Fallowed	Fallowed	Total
			Both 2022 imagery and Climate Engine NDVI data are			
	10.0		inconclusive as to whether this land was completely fallowed in	<u> </u>	10.0	40.0
Loving Creek	18.3	YES	2022. Allow credit for fallowing in 2022, but confirm in 2023.	0	18.3	18.3
Loving Springs	89.1	YES		0	89.1	89.1
			Two north pivot corners appear fallowed. Both 2022 imagery			
		YES in part,	and Climate Engine NDVI data are inconclusive as to whether the			
		inconclusive in	southeast field was fallowed in 2022. Allow credit for fallowing			
Mark Johnson	14.2	part	in 2022, but confirm in 2023.	0	14.2	14.2
Mike Lovas	15	YES		0	15	15
Molyneux	47.1	YES		0	47.1	47.1
Molyneux 2	46	YES		0	46	46
			It appears an end gun should have been removed on the larger			
			pivot but the removal may not have ocurred. Need field visit to			
			confirm. The two most eastern fields (14 ac) south of the road			
			may have been irrigated in 2022 per imagery and NDVI data.			
			Credit the middle field as fallowed. The far east pivot corner field			
			(7.7 acres) has strong evidence of irrigation (field check 2023 to			
Picabo Livestock (aka PLC Main)	83.9	Partially	confirm).	7.7	76.2	83.9
Picabo Ranch	9.3	YES		0	9.3	9.3
Point of Rocks	9.5 12.4	YES		0	9.5 12.4	9.5 12.4
Price Place	12.4	YES		0		170.1
		-		, ,	170.1	
Renegade	41.5	YES		0	41.5	41.5
			The acres appear fallowed based on review of 2022 imagery, but			
			Climate Engine/NDVI data support evidence of irrigation through			
			July. Vegetation in fallowed south half of pivot is clearly different			
			from north half per imagery, but NDVI in south half indicative of			
			irrigation/plant growth, and also very similar to NDVI in north			
			half pivot. Recommend counting all acres as fallowed but field			
Sherbine	67.1	Yes	check/confirm in 2023.	0	67.1	67.1

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			Both 2022 imagery and Climate Engine/NDVI supports evidence			
			of irrigation, but seems limited more to June and early irrigation			
			season. Lands are in sub-irrigated area. Allow credit for all acres,			
Steve Speth	106.4	No	field visit in 2023 to cofirm.	0	106.4	106.4
Susie Q	21.1	YES		0	21.1	21.1
Swamp	30.1	Partially	Both 2022 imagery and Climate Engine/NDVI supports evidence of irrigation on 6 acres. Conduct field visit next year.	6	24.1	30.1
		i ai ciai y	Both 2022 imagery and Climate Engine/NDVI supports evidence			
Tic Toc	4.1	No	of irrigation. Conduct field visit next year.	4.1	0	4.1
Wood River Ranch (WRR						
Glendale)	38.4	YES		0	38.4	38.4
						0
Total Acres	1510.8			130.2	1380.6	1510.8

*Climate Engine (https://app.climateengine.com/climateEngine) is a Google product that allows one to evaluate NDVI values at a selected location. The NDVI (Normalized Difference Vegetation Index) quantifies robustness of vegetation. The higher a NDVI value, the healthier a plant. For this evaluation, NDVI values were determined for fallowed acres while taking precipitation into consideration.

NDVI-vigor of vegetation (how

well plant is reflecting

wavelengths)

Dead Plants	-1 to 0	
Unhealthy Plants	0 to 0.33	
Moderate	0.33 to 0.66	
Very Healthy	0.66 to 1	