

**Central Curry Soil & Water Conservation District  
918 Parkland Dr., Clovis, NM 88101  
575-799-1904 or centralcurry@gmail.com**

**Cost-Share Application for Landowners in Central Curry SWCD**

**Central Curry SWCD is offering a cost share program for landowners to purchase shade balls for their livestock drinkers located within the district. Central Curry SWCD will pay 50% of the cost /per shade ball up to maximum of \$1,000.00 per producer per fiscal year. To apply, fill out the following application and bring it to the meeting, email it or mail it to the above address.**

Please fill out the following:

Name \_\_\_\_\_

Address \_\_\_\_\_

Email \_\_\_\_\_

Telephone Number (cell or home) \_\_\_\_\_

Location of Drinker \_\_\_\_\_

Size and type of drinkers/tanks to be covered \_\_\_\_\_

Number of balls requested to be purchased \_\_\_\_\_

**To be ordered in increments of 25.**

Roosevelt SWCD has been conducting research with “shade Balls” on livestock water tanks since September 2015. The HDPE balls are 4 inches in diameter, UV-stable and partially filled with water. As water levels rise and fall, the balls organize themselves into a cover that provides coverage of up to 91%. During this time, the District has measured evaporation, water temperatures, rainfall, and ice formation and recorded significantly less evaporation and ice formation with the ball-covered tank.

Drinker Size (Diameter in Feet)	Surface Area (square feet)	Number of Shade Balls Required	Price per Drinker at \$0.53/ball
8	50.27	503	\$266.59
10	78.54	785	\$416.05
12	113.10	1131	\$599.43
14	153.94	1539	\$815.67
16	201.06	2011	\$1065.83
19.1	286.52	2865	\$1518.45

# WATERING FACILITY EVAPORATION LOSSES

	WITH SHADE BALLS		WITHOUT SHADE BALLS	
Date	7.5' Drinker Gallons Lost In Excess of Rainfall	20' Drinker Gallons Lost in Excess of Rainfall (estimated)	7.5 ' Drinker Gallons Lost in Excess of Rainfall	20' Drinker Gallons Lost in Excess of Rainfall (estimated)
Sept. 30, 2015	0	0	0	0
Oct. 5, 2015	0	0	3.25	24.5
Oct. 5, 2015	0	0	0	0
Oct. 15, 2015	0	0	0	0
Oct. 22, 2015	0	0	0	0
Oct. 29, 2015	9.75	73.5	32.5	245
Nov. 4, 2015	11.375	85.75	19.5	147
Nov. 9, 2015	9.75	73.5	29.25	220.5
Nov. 23, 2015	27.625	208.25	55.25	416.5
Dec. 2, 2015	3.25	24.5	3.25	24.5
Dec. 9, 2015	0	0	13	98
Dec. 16, 2015	0	0	6.5	49
Dec. 16, 2015	0	0	0	0
Dec. 21, 2015	6.5	49	19.5	147
Jan. 4, 2016	1.625	12.25	412.75	3111.5
Jan. 13, 2016	0	0	0	0
Jan. 19, 2016	6.5	49	3.25	24.5
Feb. 3, 2016	22.75	171.5	55.25	416.5
Feb. 11, 2016	0	0	22.75	171.5
Feb. 22, 2016	21.125	159.25	58.5	441
Feb. 29, 2016	6.5	49	17.875	134.75
Mar. 11, 2016	35.75	269.5	76.375	575.75
Mar. 31, 2016	32.5	245	100.75	759.5
Mar. 31, 2016	0	0	0	0
Apr. 13, 2016	9.75	73.5	65	490
Apr. 18, 2016	14.625	110.25	42.25	318.5
Apr. 28, 2016	4.875	36.75	63.375	477.75
May 11, 2016	30.875	232.75	112.125	845.25
May 19, 2016	0	0	6.5	49
June 2, 2016	0	0	45.5	343
June 15, 2016	26	196	87.75	661.5
June 17, 2016	8.125	61.25	0	0
June 22, 2016	8.125	61.25	50.375	379.75
July 6, 2016	43.875	330.75	157.625	1188.25
July 14, 2016	26	196	100.75	759.5
July 19, 2016	22.75	171.5	55.25	416.5
July 28, 2016	3.25	24.5	65	490
Aug. 4, 2016	26	196	76.375	575.75
Aug. 4, 2016	0	0	0	0
Aug. 8, 2016	16.25	122.5	50.375	379.75
Aug. 18, 2016	11.375	85.75	76.375	575.75
Aug. 25, 2016	17.875	134.75	63.375	477.75
Sept. 1, 2016	0	0	0	0
Sept. 9, 2016	0	0	16.25	122.5
Sept. 16, 2016	0	0	21.125	159.25
Sept. 29, 2016	24.375	183.75	74.75	563.5
<b>LOSS (GALLONS)</b>	<b>489.125</b>	<b>3,687.25</b>	<b>2,159.63</b>	<b>16,280.25</b>

\*\*\*ZERO values in loss columns generally indicate rainfall received during measurement period, so no net evaporation loss recorded.