

CCVT'S CLEAN WATER PROJECT

HS Vineyard Demonstration Site Summary



(Demo Area Prior to BMP)



(Demo Area After BMP)

Clean Water Project Summary

Historical Erosion Issues:	Major erosion next to a mile long, bare, dirt road that runs adjacent to the vineyard.
Demonstration Site Goals:	To further reduce erosion caused from the road.
Best Management Practice (BMP) Implementation:	Hydroseed a third of the road with a perennial mix at a rate of 35 lbs/acre and blow straw on top. Hydroseed a third of the road with the same mix, same rate, no cover. Drill a third of the same mix at a rate of 35 lbs/ac.
Demo Site Acreage:	100
Year 1 BMP Imp. & Main. Cost:	\$12,913.00
Year 1 BMP Imp. & Main. Cost (per acre):	\$129.13
Year 2 BMP Imp. & Main. Cost:	Approximately \$10,000.00
Year 2 BMP Imp. & Main. Cost (per acre):	Approximately \$100.00

Challenges and Successes

Challenges Associated with Implementation of BMP:	Significant time went into the planning of the BMP prior to implementation.
Challenges with Maintaining BMP:	Immediately after planting the road was driven on by several field workers. Portions of the planted road was removed because of this. Therefore, seeds could not get established.
Misc. Challenges Associated with the Demonstration Site:	There was very little rain during the time the seeds were trying to get established. This made it harder for the seeds to come.
Success of BMP:	Portions of the road increased coverage from 0 to 50 %.

PPS¹ Score (out of 1,000 points):

Year 1:	786
Year 2:	917
Increase:	131

RUSLE² 2 Score (soil loss):

	(Tons/Acre/Year)	(Tons/Demo Site)
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Before BMP Implementation:	NA ³	NA
After BMP Implementation:	NA	NA
Decrease:	NA	NA

Notes:

1 PPS = Positive Points System Evaluation.

2 RUSLE 2 = Revised Universal Soil Loss Equation.

3 NA = RUSLE 2 only measures sheet and rill erosion. Therefore, RUSLE 2 could not be used to calculate approximate soil loss for HS Vineyard because of the gullies along the road.