TABLE 8.1. Days without plant water stress followingrainfall for different rooting depths

Rooting depth (inches)	Days without water stress following rainfall ¹		
6	3		
9	5		
12	6		
24	12		
35	18		
48	24		
60	30		

¹ The available water was 1 inch per 6 inches of soil, and the evapotranspiration was 0.33 inch per day. *Source:* [16]

TABLE 8.2. Cost and return comparison of a standard conservation rotation and a four-year, sod-based rotation

STANDARD CONSERVATION ROTATION								
Annual Cost		Yield	Units	Acres	Costs	Revenue	Profit	
	Cotton	1,000	Pounds	133.7	\$100,265	\$108,297	\$8,032	
	Peanuts	4,200	Pounds	66.3	\$51,408	\$72,400	\$20,991	
			TOTAL	200	\$151,673	\$180,697	\$29,024	
					FOUR-YEAR TOTAL		\$116,096	
CONVERTING TO SOD-BASED ROTATION								
Projected annual costs and returns for the four-year, sod-based rotation								
YEAR ONE								
Field	Crop	Yield	Units	Acres	Costs	Revenue	Profit	
1	Bahia 1 ¹	3	Tons	50	\$18,554	\$32,826	\$14,272	
2	Cotton	1,000	Pounds	50	\$37,496	\$40,500	\$3,004	
3	Peanuts	4,200	Pounds	50	\$38,769	\$54,600	\$15,831	
4	Cotton	1,000	Pounds	50	\$37,496	\$40,500	\$3,004	
			TOTAL	200	\$132,315	\$168,426	\$36,111	
YEAR TWO								
Field	Crop	Yield	Units	Acres	Costs	Revenue	Profit	
1	Cattle ²	81	Calves	50	\$34,139	\$84,443	\$50,303	
2	Bahia 1	3	Tons	50	\$18,554	\$32,826	\$14,272	
3	Cotton ³	1,200	Pounds	50	\$41,246	\$48,600	\$7,354	
4	Peanuts	4,200	Pounds	50	\$42,519	\$54,600	\$12,081	
			TOTAL	200	\$136,459	\$220,469	\$84,010	
YEAR THREE								
Field	Crop	Yield	Units	Acres	Costs	Revenue	Profit	
1	Peanuts ³	5,200	Pounds	50	\$42,519	\$67,600	\$25,081	
2	Cattle	81	Calves	50	\$34,139	\$84,443	\$50,303	
3	Bahia 1	3	Tons	50	\$18,554	\$32,826	\$14,272	
4	Cotton	1,200	Pounds	50	\$41,246	\$48,600	\$7,354	
			TOTAL	200	\$136,459	\$233,469	\$97,010	
YEAR FOUR								
Field	Crop	Yield	Units	Acres	Costs	Revenue	Profit	
1	Cotton	1,450	Pounds	50	\$41,246	\$58,725	\$17,479	
2	Peanuts	5,200	Pounds	50	\$42,519	\$67,600	\$25,081	
3	Cattle	81	Calves	50	\$34,139	\$84,443	\$50,303	
4	Bahia 1	3	Tons	50	\$18,554	\$32,826	\$14,272	
			TOTAL	200	\$136,459	\$243,594	\$107,135	
					FOUR-YEAR TOTAL \$324,265			

¹ "Bahia 1" refers to first-year bahiagrass.

² In each year, this row refers to the number of cattle grazing second-year bahiagrass.

³Cotton and peanut yields increase over time as the benefits of including them in a sod-based rotation are realized.