



FARM Assistance

Focus

TEXAS A&M
AGRILIFE
EXTENSION



After the Conservation
Reserve Program:
Economic Decisions with
Farming and Grazing in Mind

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“Use Caution when burning old grass residue, especially in the Texas Panhandle, where winds are high, humidity is low, and conditions are dry.”

humidity is low, and conditions in late winter are dry. Burn only under proper conditions after adequate preparation. It may also be beneficial to employ the assistance of experienced, trained personnel. Contact a prescribed burn association such as the Texas Panhandle Prescribed Burn Association (<http://www.ranches.org/tppba.htm>) or others listed with the Prescribed Burn Alliance of Texas (<http://pbatexas.org>) for additional resources and information.

After clearing old grass residue, the next step in the conversion process is grass kill-off and soil preparation through tillage and herbicides. The amount of tillage varies for each farm. Reduced tillage uses chisels, disks, or sweeps along with herbicides to kill existing grasses and to minimally till the soil during the conversion process. This process leaves more surface residue than clean tillage and helps reduce soil moisture loss from evaporation. The reduced-till option also improves seedbed quality compared to no-tillage.

The clean-tillage option, which involves more operations and trips across the land than reduced-till, is used to control grass and to prepare the soil for planting quickly and effectively. However, the clean-till process also involves an increase in labor and machinery expenses caused by a greater number of trips across the field. Multiple tillage operations also leave very little crop residue on the surface, exposing the land to wind and water erosion, and lose a greater amount of stored soil moisture to evaporation.

No-tillage is usually not effective in the conversion process because the soil compaction of CRP acreage is often too great for a satisfactory seedbed, and the land surface may be too rough. Because grass tends to grow in clumps, most CRP fields are extremely uneven; using a disk plow followed by a chisel and sweep plow can help level the surface. No-till can be a successful farming practice after conversion is completed.

Wheat

A landowner who has decided to plant dryland wheat should begin the conversion process by clearing old grass residue. Once the initial burning is completed in the spring, give the grass time to grow before applying herbicide. In July, apply 1.5 pounds of Acid Equivalent (AE) per acre of glyphosate (Roundup). All herbicide applications include a water conditioner such as ammonium sulfate in the tank mixture, which costs an additional \$1 per acre. A custom application rate of \$6 per acre is also included in each herbicide application, (Table 1). The next step is disk plowing in August, followed by chisel plowing in September, and sweep plowing in October. Depending

on the amount of rainfall in late summer and early fall, dryland wheat may not be the best first grain crop to produce. If conditions are dry, the land should remain fallow through the winter to build up soil moisture before planting a summer row crop.

If enough moisture is available for wheat production, apply a phosphorous rate of 30 pounds of 10-

**Table 1. Estimated Costs of Converting CRP to Wheat, Dryland, Reduced-Tillage
2018 projected Costs Per Acre; Texas Panhandle Area**

Date	Item	Unit	Price	Quantity	Amount
Direct Expenses of Conversion					
April	controlled burn	acre	\$10.00	1.00	\$10.00
July	herbicide	acre	\$13.25	1.00	\$13.25
August	disk	acre	\$13.00	1.00	\$13.00
September	chisel	acre	\$14.00	1.00	\$14.00
October	sweep	acre	\$13.50	1.00	\$13.50
October	soil test	acre	\$1.05	1.00	\$1.05
October	fertilizer	lb	\$0.61	30.00	\$18.30
October	fertilizer	lb	\$0.38	40.00	\$15.20
October	fertilizer	acre	\$6.00	1.00	\$6.00
Total Direct Expenses					\$104.30

Before making any decisions, a producer should analyze the situation completely, focusing on his or her individual operation and figuring the numbers accordingly.

acres per animal unit, or the equivalent of a 1,000-pound cow with calf. On average, cattle require around 15 gallons of water each day, depending on weather conditions, body size, physical characteristics, and gender. Along with a functioning water source, water storage is also required. NRCS recommends at least a 4-day water storage capacity for systems supplied by electric pumps or 7 days if the system is supplied by a solar pump. Steel stock tanks and earthen tanks are popular storage methods. A steel tank that holds 1,100 gallons costs about \$450.

Table 5. Estimated Well and Solar Submersible Costs for Various Well Depths

Well		Solar	
Depth (ft.)	Cost	Cost	System Cost
250	\$5,625	\$7,900	\$13,525
350	\$7,875	\$8,500	\$16,375
450	\$10,125	\$10,000	\$20,125
550	\$12,375	\$11,300	\$23,676

Conclusion and Summary

When choosing to convert former CRP land to cropland or grazing, a landowner faces several decisions. Costs can run between \$100 and \$125 per acre, depending on the amount of tillage and chemicals applied to convert CRP land to dryland wheat production. The cost for converting CRP land to dryland grain sorghum should range between \$150 and \$175 per acre.

Converting to livestock grazing costs approximately \$30 to \$50 per acre using burning and fertilization. In addition, fencing and the development of a water source may be needed. Expect to pay around \$975 per mile for one-strand electric fencing and \$1,223 per mile for two-strand electric fencing. Barbed wire fencing will cost approximately \$10,500 per mile, including gates and corner posts. A well with a solar submersible pump ranges between \$13,525 and \$23,676, depending on the depth required.

Before making any decisions, a producer should analyze the situation completely, focusing on his or her individual operation and figuring the numbers accordingly. Local Natural Resources Conservation Service field offices can aid in understanding the issues of conversion and offer insight into any financial cost-share programs available to help offset expenses.

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