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NF98-373 Preparation and Use of Wheatgrass Stands after CRP and Associated Costs/Income — Part II

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Preparation and Use of Wheatgrass Stands after CRP and Associated Costs/Income — Part II

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The following sample worksheet and worksheet can be used to calculate costs and income for your specific operation. For more information on preparing and using wheatgrass stands following CRP, please see the companion publication, Preparation and Use of Wheatgrass Stands after CRP and Associated Costs/Income — Part I, NF98-372.

Fence & Water Cost Budget

Example

Fencing Costs _______160______ acres (Purchase + Salvage / Value) = Useable Life
Ownership Costs

Perimeter Fence _______4-strand barbed
10,560 feet @ $___0.57___/ ft (____6,019.20____) + ______0____/____30___ yrs = ______200.64____

Interior Fence _______3-strand HTE wire
5,280 feet @ $___0.41___/ ft (____2,164.80____) + ______0____/____25___ yrs = ______86.59____

Gates
4 _____ @ $___50.00___ / gate (____200.00____) + ______0____/____20___ yrs = ______10.00____

Energizer
(____300.00____) + ______0____/____15___ yrs = ______20.00____

Total
(____8,684.00____) + ______0____ = ______317.23____

Subject to Personal Property Tax* ______2,464.80____ + ______0____ = ______106.59____

Annual Depreciation Costs per Acre Total Annual Deprec./Acres
$________317.23____ / ______160____ acres = 1 ______1.98____

Average Annual Investment

(Value Beg. Yr 1 + Value Beg. Last Yr of Use)/2 =
(Purchase Cost + Salvage Value + Annual Deprec.)/2 =

Total
($____8,684.00____ + $____0____ + $____317.23____)/2 = $____4,500.62____

Personal Property
($____2,464.80____ + $____0____ + $____106.59____)/2 = $____1,285.70____

B-3
Annual Interest Costs per Acre
Average Annual Investment x (Interest Rate/100)/acres
$ __________ x ( ________ %/100) = $ __________ / __________ acres = 2 __________

Annual Personal Property Tax per Acre
Average Annual Investment subject to PP Tax x (Tax Rate/100)/acres
$ __________ x ( ________%/100) = $ __________ / __________ acres = 3 __________

Operating Costs
Annual Fence Repair Costs per Acre
2 miles @ $ __________ /mile/year = $ __________ / __________ acres = 4 __________

Annual Energy Costs per Acre
30 kwh/month x 5 months = 150 kwh @ $ __________ /kwh = $ __________ / __________ acres = 5 __________

Total Annual Fencing Costs per Acre
Sum of lines 1 through 5 = 6 __________

Water System Costs __________ acres (Purchase + Salvage / Useful = Annual Ownership Costs Cost Value) Life Deprec.
Well __________ feet @ $ __________ /ft ( ________ + ________ )/ ________ yrs = ________
Pipe __________ feet @ $ __________ /ft ( ________ + ________ )/ ________ yrs = ________
Pump __________ hp ( ________ + ________ )/ ________ yrs = ________
Pressure Tank __________ gal * ________ @ $ __________ /tank * ________ + ________ / ________ yrs = ________
11 ft Tanks __________ @ $ __________ /tank *( ________ + ________ )/ ________ yrs = ________
1 Floats & valves @ $ __________ /tank *( ________ + ________ )/ ________ yrs = ________
Electrical Service ( ________ + ________ )/ ________ yrs = ________

Total ________/ ________ acres = 303.81
Subject to Personal Property Tax* ________/ ________ acres = 89.00

Annual Depreciation Costs per Acre = Total Annual Deprec./Acres = $ __________/ __________ acres = 7 __________

Average Annual Investment = (Value Beg. Yr 1 + Value Beg. Last Yr of Use)/2 = ________
Total ($ ________ + ________ + ________ )/2 = ________
Personal Property ($ ________ + ________ + ________ )/2 = ________

Annual Interest Costs per Acre = Average Annual Investment x (Interest Rate/100)/acres
$ __________ x ( ________ %/100) = $ __________ / __________ acres = 8 __________

Annual Personal Property Tax per Acre
Average Annual Investment subject to PP Tax x (Tax Rate/100)/acres
$ __________ x ( ________%/100) = $ __________ / __________ acres = 9 __________

Pumping Costs
Hours Pumping = 70 head x 20 gals/days x 30 days = 42,000 gals
42,000 gals/ 10 gpm = 4,200 minutes/60 = 70 hours
kwh cost = 70 hours @ 1.5 kw/hr = 105 kwh @ $ __________ /kwh = ________
Repair Costs = 70 hours @ $ __________ /hr = ________
Meter Charge = $ __________/month x ________ months = ________
Total ________
Pumping Costs per Acre = $ Total/acres = ________/ __________ acres = 10 __________

Total Annual Water Costs per Acre
Sum of lines 7 through 10 = 11 __________
Fence & Water Cost Budget

Example

Fencing Costs _______________ acres (Purchase + Salvage / Useful  = Annual Ownership Costs Cost Value) Life Deprec.

Perimeter Fence ____________________________________

________ feet @ $ ____________/ ft (_____________ + ____________)/ __________ yrs = __________

Interior Fence ________________________________

________ feet @ $ ____________/ ft (_____________ + ____________)/ __________ yrs = __________

Gates

_________ @ $ __________ / gate (_____________ + ____________)/ __________ yrs = __________

Energizer

(___________ + ____________)/ __________ yrs = __________

Total

(___________ + ____________) = __________

Subject to Personal Property Tax* _____________ + ____________ = __________

Annual Depreciation Costs per Acre Total Annual Deprec./Acres

$ _____________ / ____________ acres = 1 _____________

Average Annual Investment

(Value Beg. Yr 1 + Value Beg. Last Yr of Use)/2 =
(Purchase Cost + Salvage Value + Annual Deprec.)/2 =

Total

($___________ + $___________ + $___________)/2 = $___________

Personal Property

($___________ + $___________ + $___________)/2 = $___________

Annual Interest Costs per Acre

Average Annual Investment x (Interest Rate/100)/acres

$___________ x (___________%)/100 = $___________ / __________ acres = 2 _____________

Annual Personal Property Tax per Acre

Average Annual Investment subject to PP Tax x (Tax Rate/100)/acres

$___________ x (___________%)/100 = $___________ / __________ acres = 3 _____________

Operating Costs

Annual Fence Repair Costs per Acre

__________ miles @ $__________ /mile/year = $__________ / __________ acres = 4 _____________

Annual Energy Costs per Acre

_____ kwh/month x ______months =

__________ kwh @ $__________/kwh = $ __________ / __________ acres = 5 _____________

Total Annual Fencing Costs per Acre

Sum of lines 1 through 5 = 6 _____________

Water System Costs ___________ acres (Purchase + Salvage / Useful  = Annual Ownership Costs Cost Value) Life Deprec.

Well ________ feet @ $_______/ft (__________ + ________)/ ________ yrs = __________

Pipe ________ feet @ $_______/ft (__________ + ________)/ ________ yrs = __________

Pump ________hp (__________ + ________)/ ________ yrs = __________

Pressure Tank ________ gal *(__________ + ________)/ ________ yrs = __________

_________ ft Tanks ________ @ $ _______/tank *(__________ + ________)/ ________ yrs = __________

_________ Floats & valves @ $ _______/tank *(__________ + ________)/ ________ yrs = __________

Electrical Service

(__________ + ________)/ ________ yrs = __________

Total

__________

Subject to Personal Property Tax* _____________
Annual Depreciation Costs per Acre = Total Annual Deprec./Acres = Per Acre

\[
\frac{\text{Total Annual Deprec.}}{\text{Acres}} = \text{Per Acre}
\]

7

Average Annual Investment =

\[
\text{Value Beg. Yr 1} + \text{Value Beg. Last Yr of Use})/2 =
\]

Total

\[
\frac{\text{($\text{Value Beg. Yr 1} + \text{Value Beg. Last Yr of Use})}}{2} = \text{($\text{Total})}
\]

Personal Property

\[
\frac{\text{($\text{Value Beg. Yr 1} + \text{Value Beg. Last Yr of Use})}}{2} = \text{($\text{Total})}
\]

Annual Interest Costs per Acre =

\[
\text{Average Annual Investment} \times \left(\frac{\text{Interest Rate}}{100}\right) = \text{Per Acre}
\]

8

Annual Personal Property Tax per Acre

\[
\text{Average Annual Investment subject to PP Tax} \times \left(\frac{\text{Tax Rate}}{100}\right) = \text{Per Acre}
\]

9

Pumping Costs

Hours Pumping =

\[
\frac{\text{______ head x ______ gallons/day x ______ days} = \text{______ gallons}}{\text{______ gallons/day} \times \text{______ gpm} = \text{______ minutes/60} = \text{______ hours}}
\]

\[
\text{kwh cost =______ hours} \times \text{______ kw/hr} = \text{______ kwh} \times \text{______/kwh}
\]

10

Repair Costs = ________ hours @ $ ________/hr = ________

Meter Charge = $ ________/month x ________ months = Total ________

11

Total Annual Water Costs per Acre = Sum of lines 7 through 10 =