



After I sent out the March 2009 Cover Crop Newsletter, I was given the suggestion to follow up with a newsletter showing the benefit over expense for several different cover crop options. In this newsletter, I have included five different cover crop scenarios for after corn silage and wheat. I also included a table showing the amount of nitrogen that is captured by a cover crop following a manure application to wheat stubble, in July and August.

Tritical After Corn Silage	
Seed	\$38.00
Drilling	\$ 15.65
Spring Nitrogen	\$ 46.88
Cutting	\$ 12.39
Baling	\$ 60.00
Wrapping	\$52.40
Total Expense	\$225.32
Forage Harvested	\$ 240.00
Scavenged Nitrogen After Corn	\$ 31.88
Total Benefit	\$ 271.88
Benefit Over Expense	\$ 46.56

Sorghum Sudan After Wheat - 1 Cut	
Seed	\$ 56.00
Drilling	\$ 15.65
Nitrogen Applications	\$ 37.50
Cutting	\$ 12.39
Baling	\$ 44.55
Wrapping	\$ 44.00
Total Expenses	\$ 210.09
Forage Harvested	\$ 238.06
Scavenged Nitrogen After Wheat	\$ 16.88
Total Benefit	\$ 254.93
Benefit Over Expense	\$ 44.84

Notes:

1. Yield per acre – 2.5 Ton/Acre Drymatter – Same as 3 Ton/Acre At 15% Moisture
2. 75 Units Of Nitrogen Applied Per Acre
3. Priced At \$80/ton.

Notes:

1. Yield per acre – 2.1 Ton/Acre Drymatter – Same as 2.5 Ton/Acre At 15% Moisture
2. 60 Units Of Nitrogen Applied Per Acre
3. Priced At \$95/ton

Sorghum Sudan After Wheat - 2 Cuts	
Seed	\$ 56.00
Drilling	\$ 15.65
Nitrogen Applications	\$ 56.25
Cutting x 2	\$ 24.78
Baling x 2	\$ 94.12
Wrapping x 2	\$ 92.00
Total Expenses	\$ 338.80
Forage Harvested	\$ 502.94
Scavenged Nitrogen After Wheat	\$ 16.88
Total Benefit	\$ 519.82
Benefit Over Expense	\$ 181.02

Notes:

1. Yield acre – 4.5 Ton/Acre Drymatter – Same as 5.25 Ton/Acre At 15% Moisture
2. 60 Units Of Nitrogen For 1st Cutting and 30 Units Of Nitrogen For 2nd Cutting
3. Priced At \$95/ton



Product Highlights:
Haymaker Sudan - Drystalk sudan for dry baling
Summer Mix - Economy priced mix of Summer King and Haymaker Plus
Teff - Excellent crop for dry hay after wheat
Quality discounts are available

Tillage Radishes After Wheat	
Seed	\$ 28.50
Drilling	\$ 15.65
Total Expense	\$ 44.15
Scavenged Nitrogen After Wheat Bush Hog Wheat Stubble For Weed Control	\$ 16.88
Subsoiling Wheat Stubble	\$ 11.13
Total Benefit	\$ 17.88
Benefit Over Expense	\$ 1.74

Note:

1. Radishes have the ability to suppress weeds in crop fields eliminating the need for herbicides or mowing.
2. Radishes deep tap root eliminate the need for deep tillage.

Frost Seeding Clover Into Wheat	
Seed	\$ 37.00
Broadcast	\$ 5.00
Cutting	\$ 12.39
Baling Prep	\$ 12.72
Baling	\$ 26.67
Total Expenses	\$ 93.78
Forage Harvested	\$ 97.50
Fixated Nitrogen	\$ 15.00
Total Benefit	\$ 112.50
Benefit Over Expense	\$ 18.72

Notes:

1. Yield acre – 1.3 Ton/Acre Drymatter – Same as 1.5 Ton/Acre At 15% Moisture
2. 30 Pounds/Acre Nitrogen Credit
3. Priced At \$65/ton

Manure Type	Ammonia Nitrogen - Lbs/1000 gallons or Lbs/Ton	Organic Nitrogen - Lbs/1000 gallons or Lbs/Ton	Application Rate - gallons/acre or tons/acre	Nitrogen Available For Scavenging By Cover Crops In July & August Lbs./Acre	Nitrogen Available With No Cover Crops The Following Spring Lbs./Acre	Nitrogen Loss Lbs./Acre
Dairy Animal Waste Pond - Gallons	3.9	15.6	18,000	94.8	59.7	35.1
Swine Deep Pit - Gallons	17.7	8.4	7500	109.0	42.6	66.4
Poultry Layer - Tons	12.3	22.9	4	78.1	30.6	47.5

Notes:

1. This is assuming manure is applied to wheat stubble in July and August.
2. Nitrogen available for scavenging is when cover crop is planted immediately after manure application.
3. Nitrogen available with no cover crops assumes manure is applied to the wheat stubble and the following crop is planted the next crop year.



End Notes:

1. Unit cost of nitrogen based on 28% Nitrogen at \$350/ton.
2. Equipment cost based on 2008 OSU Extension Custom Farming Rates.
3. Nitrogen scavenged is based on 40% crop utilization rate of applied nitrogen and 50% of the unutilized nitrogen being utilized by the covercrop.
4. All forage pricing based on 15% moisture hay.
5. Manure values are from Ohio Livestock Manure Management Guide, Bulletin #604.