Exhibit 1

Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 6	40 Acres

Purpose (Check all that apply)

- ☐ Budget and supply nutrients for plant production
- ☑ Minimize agricultural nonpoint source pollution
- ☑ Utilize organic material as nutrient source
- ☐ Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
56	310	252	5.5		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		0	0	1.2	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	144	0	0	0	0
7. Manure or Organic by-products		40	0	95	0	49	0
8. Total Applied Nutrients		40	144	95	0	49	0
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		96	200	95	0	49	0
10. Recommended Nutrients		200	200	0	0	0	0
11. Nutrient Status (subtract line 10 from 9)		-104	0	95	0	49	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 1.1 tons per acre per year of [redacted] litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 144 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 0.0 pounds per acre of commercial potassium fertilizer per acre. At t

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OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	6	Date:	1-1902004
Planner:	Marty Hern	Location:	14-19-23	Crop:	Pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	310			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
		x		
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates		
High Rating	Apply at half rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 100 lbs/ac P2O5 when surface applied. Application of up to 150 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 200 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.
Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 8	19 Acres

Purpose (Check all that apply)

- ☐ Budget and supply nutrients for plant production
- ☑ Minimize agricultural nonpoint source pollution
- ☑ Utilize organic material as nutrient source
- ☐ Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
21	113	109	5.8		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		0	60	0	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	179	0	0	0	60
7. Manure or Organic by-products		92	0	198	0	112	0
8. Total Applied Nutrients		92	179	198	0	112	60
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		113	200	198	0	112	60
10. Recommended Nutrients		200	200	0	0	60	60
11. Nutrient Status (subtract line 10 from 9)		-87	0	198	0	52	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 2.3 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 179 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 60.0 pounds per acre of commercial potassium fertilizer per acre.

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OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	8	Date:	4/19/2004
Planner:	Marty Hern	Location:	23-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	113			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates		
Moderate Rating	Apply at full rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 200 lbs/ac P2O5 when surface applied. Application of up to 300 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 400 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.
Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 9	10 Acres

Purpose (Check all that apply)

- [ ] Budget and supply nutrients for plant production
- [x] Minimize agricultural nonpoint source pollution
- [x] Utilize organic material as nutrient source
- [ ] Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
55	63	348	6.0		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		2	0	0.5	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	145	0	2	0	0
7. Manure or Organic by-products		40	0	95	0	53	0
8. Total Applied Nutrients		40	145	95	2	53	0
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		95	200	95	2	53	0
10. Recommended Nutrients		200	200	2	2	0	0
11. Nutrient Status (subtract line 10 from 9)		-105	0	93	0	53	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 1.1 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 145 pounds per acre of commercial nitrogen fertilizer, 2.0 pounds of commercial phosphorus fertilizer per acre, and 0.0 pounds per acre of commercial potassium fertilizer per acre.

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OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	9	Date:	4/16/2004
Planner:	Marty Hern	Location:	34-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	63			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
		x		
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
		x		

Non - Nutrient Limited Watershed - Waste Application Rates		
Low Rating	Apply at half rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 100 lbs/ac P2O5 when surface applied. Application of up to 150 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 200 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.
Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1

Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 6	40 Acres

Purpose (Check all that apply)

- ☐ Budget and supply nutrients for plant production
- ☑ Minimize agricultural nonpoint source pollution
- ☑ Utilize organic material as nutrient source
- ☐ Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
56	310	252	5.5		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		0	0	1.2	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	144	0	0	0	0
7. Manure or Organic by-products		40	0	95	0	49	0
8. Total Applied Nutrients		40	144	95	0	49	0
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		96	200	95	0	49	0
10. Recommended Nutrients		200	200	0	0	0	0
11. Nutrient Status (subtract line 10 from 9)		-104	0	95	0	49	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 1.1 tons per acre per year of [redacted] litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 144 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 0.0 pounds per acre of commercial potassium fertilizer per acre. At t

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OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	6	Date:	1-1902004
Planner:	Marty Hern	Location:	14-19-23	Crop:	Pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	310			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
		x		
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates		
High Rating	Apply at half rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 100 lbs/ac P2O5 when surface applied. Application of up to 150 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 200 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.
Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 8	19 Acres

Purpose (Check all that apply)

- [ ] Budget and supply nutrients for plant production
- [x] Minimize agricultural nonpoint source pollution
- [x] Utilize organic material as nutrient source
- [ ] Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
21	113	109	5.8		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		0	60	0	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	179	0	0	0	60
7. Manure or Organic by-products		92	0	198	0	112	0
8. Total Applied Nutrients		92	179	198	0	112	60
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		113	200	198	0	112	60
10. Recommended Nutrients		200	200	0	0	60	60
11. Nutrient Status (subtract line 10 from 9)		-87	0	198	0	52	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 2.3 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 179 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 60.0 pounds per acre of commercial potassium fertilizer per acre.

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OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	8	Date:	4/19/2004
Planner:	Marty Hern	Location:	23-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	113			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates		
Moderate Rating	Apply at full rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 200 lbs/ac P2O5 when surface applied. Application of up to 300 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 400 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.
Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 9	10 Acres

Purpose (Check all that apply)

- [ ] Budget and supply nutrients for plant production
- [x] Minimize agricultural nonpoint source pollution
- [x] Utilize organic material as nutrient source
- [ ] Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
55	63	348	6.0		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		2	0	0.5	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	145	0	2	0	0
7. Manure or Organic by-products		40	0	95	0	53	0
8. Total Applied Nutrients		40	145	95	2	53	0
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		95	200	95	2	53	0
10. Recommended Nutrients		200	200	2	2	0	0
11. Nutrient Status (subtract line 10 from 9)		-105	0	93	0	53	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 1.1 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 145 pounds per acre of commercial nitrogen fertilizer, 2.0 pounds of commercial phosphorus fertilizer per acre, and 0.0 pounds per acre of commercial potassium fertilizer per acre.

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OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	9	Date:	4/16/2004
Planner:	Marty Hern	Location:	34-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	63			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
		x		
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
		x		

Non - Nutrient Limited Watershed - Waste Application Rates		
Low Rating	Apply at half rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 100 lbs/ac P2O5 when surface applied. Application of up to 150 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 200 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.

Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 10	29 Acres

Purpose (Check all that apply)

- ☐ Budget and supply nutrients for plant production
- ☑ Minimize agricultural nonpoint source pollution
- ☑ Utilize organic material as nutrient source
- ☐ Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
26	91	94	5.7		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		0	80	0.7	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	174	0	0	0	80
7. Manure or Organic by-products		92	0	198	0	112	0
8. Total Applied Nutrients		92	174	198	0	112	80
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		118	200	198	0	112	80
10. Recommended Nutrients		200	200	0	0	80	80
11. Nutrient Status (subtract line 10 from 9)		-82	0	198	0	32	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 2.3 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 174 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 80.0 pounds per acre of commercial potassium fertilizer per acre.

10/2002

OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	10	Date:	4/19/2004
Planner:	Marty Hern	Location:	33-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	91			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates

Moderate Rating	Apply at full rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 200 lbs/ac P2O5 when surface applied. Application of up to 300 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 400 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.

Nutrient Limited Watershed - Waste Application Rates

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 11	30 Acres

Purpose (Check all that apply)

- ☐ Budget and supply nutrients for plant production
- ☑ Minimize agricultural nonpoint source pollution
- ☑ Utilize organic material as nutrient source
- ☐ Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
29	179	309	5.6		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		0	0	1	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	171	0	0	0	0
7. Manure or Organic by-products		92	0	198	0	112	0
8. Total Applied Nutrients		92	171	198	0	112	0
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		121	200	198	0	112	0
10. Recommended Nutrients		200	200	0	0	0	0
11. Nutrient Status (subtract line 10 from 9)		-79	0	198	0	112	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 2.3 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 171 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 0.0 pounds per acre of commercial potassium fertilizer per acre.

10/2002

OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	11	Date:	4/19/2004
Planner:	Marty Hern	Location:	23-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	179			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates		
Moderate Rating	Apply at full rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 200 lbs/ac P2O5 when surface applied. Application of up to 300 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 400 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.

Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 12	9 Acres

Purpose (Check all that apply)

- [ ] Budget and supply nutrients for plant production
- [x] Minimize agricultural nonpoint source pollution
- [x] Utilize organic material as nutrient source
- [ ] Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
27	37	119	5.8		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		25	50	0.7	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	173	0	25	0	50
7. Manure or Organic by-products		92	0	198	0	112	0
8. Total Applied Nutrients		92	173	198	25	112	50
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		119	200	198	25	112	50
10. Recommended Nutrients		200	200	25	25	50	50
11. Nutrient Status (subtract line 10 from 9)		-81	0	173	0	62	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 2.3 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 173 pounds per acre of commercial nitrogen fertilizer, 25.0 pounds of commercial phosphorus fertilizer per acre, and 50.0 pounds per acre of commercial potassium fertilizer per acre.

10/2002

OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	12	Date:	4/19/2004
Planner:	Marty Hern	Location:	24-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	37			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates		
Low Rating	Apply at full rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 200 lbs/ac P2O5 when surface applied. Application of up to 300 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 400 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.
Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 13	14 Acres

Purpose (Check all that apply)

- ☐ Budget and supply nutrients for plant production
- ☑ Minimize agricultural nonpoint source pollution
- ☑ Utilize organic material as nutrient source
- ☐ Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
27	168	178	5.3		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		0	40	1.4	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	173	0	0	0	40
7. Manure or Organic by-products		92	0	198	0	112	0
8. Total Applied Nutrients		92	173	198	0	112	40
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		119	200	198	0	112	40
10. Recommended Nutrients		200	200	0	0	40	40
11. Nutrient Status (subtract line 10 from 9)		-81	0	198	0	72	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 2.3 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 173 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 40.0 pounds per acre of commercial potassium fertilizer per acre.

10/2002

OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	13	Date:	4/19/2004
Planner:	Marty Hern	Location:	24-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	168			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates		
Moderate Rating	Apply at full rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 200 lbs/ac P2O5 when surface applied. Application of up to 300 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 400 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.
Nutrient Limited Watershed - Waste Application Rates		

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 14	23 Acres

Purpose (Check all that apply)

- ☐ Budget and supply nutrients for plant production
- ☑ Minimize agricultural nonpoint source pollution
- ☑ Utilize organic material as nutrient source
- ☐ Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
58	32	299	5.0		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		0	0	1.4	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	142	0	0	0	0
7. Manure or Organic by-products		92	0	198	0	112	0
8. Total Applied Nutrients		92	142	198	0	112	0
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		150	200	198	0	112	0
10. Recommended Nutrients		200	200	0	0	0	0
11. Nutrient Status (subtract line 10 from 9)		-50	0	198	0	112	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 2.3 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 142 pounds per acre of commercial nitrogen fertilizer, 0.0 pounds of commercial phosphorus fertilizer per acre, and 0.0 pounds per acre of commercial potassium fertilizer per acre.

10/2002

OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	14	Date:	4/19/2004
Planner:	Marty Hern	Location:	15-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	32			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates

Low Rating	Apply at full rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 200 lbs/ac P2O5 when surface applied. Application of up to 300 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 400 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.

Nutrient Limited Watershed - Waste Application Rates

Exhibit 1 Nutrient Budget Worksheet

Landowner: Bob Schwabe	Field No.: 15	4 Acres

Purpose (Check all that apply)

- ☐ Budget and supply nutrients for plant production
- ☑ Minimize agricultural nonpoint source pollution
- ☑ Utilize organic material as nutrient source
- ☐ Maintain or improve soil condition

Crop Sequence/Rotation	Expected Yield
Continuous graze pasture	4

Nutrient Content of Manure per ton

N Test	N Remaining	P_2O_5	K_2O
81	40	86.1	48.6

Current Soil Test Levels

N	P	K	pH	SOM%	EC
5	53	114	5.5		

Recommended Nutrients to Meet Expected Yield and Grass Establishment (See Tables in 590 Standard)

N	N for Grass Est.	P_2O_5	K2O	Lime	Other
200		20	55	1.2	

Nutrient Sources

Credits	N	P_2O_5	K_2O
1. Nitrogen credits from previous legume crop	0		
2. Residual from long-term manure application	0		
3. Irrigation water	0		
4. Other (Atmosphere, etc.)	0		
5. Total Credits	0	0	0

Applied Nutrients		N		P_2O_5		K_2O	
		Alt. 1	Alt. 2	Alt. 1	Alt. 2	Alt. 1	Alt. 2
6. Fertilizer	Starter						
	Other	0	195	0	20	0	55
7. Manure or Organic by-products		92	0	198	0	112	0
8. Total Applied Nutrients		92	195	198	20	112	55
9. Total Nutrients (add lines 5 and 8 plus N from Soil Test)		97	200	198	20	112	55
10. Recommended Nutrients		200	200	20	20	55	55
11. Nutrient Status (subtract line 10 from 9)		-103	0	178	0	57	0

If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.
If line 11 is a positive number, this is the amount by which the applied nutrients exceed the crop requirements.

Nutrient Management Decision - Including method, rate, form and timing of application.	Producer Selected Alternative:	1

Alternative 1 assumes applying 2.3 tons per acre per year of Turkey litter. At this rate you will not meet the nitrogen requirements and exceed the Phosphorus and Potasium requirements.
Alternative 2 assumes that you would sell your litter and supplement with 195 pounds per acre of commercial nitrogen fertilizer, 20.0 pounds of commercial phosphorus fertilizer per acre, and 55.0 pounds per acre of commercial potassium fertilizer per acre.

10/2002

OKLAHOMA PHOSPHORUS ASSESSMENT WORKSHEET

Client Name:	Bob Schwabe	Field(s):	15	Date:	4/19/2004
Planner:	Marty Hern	Location:	15-19-23	Crop:	pasture
Nutrient Limited Watershed (yes/no):	no			Ctrl + C clears worksheet	

Soil Test P Index Mehlich III (lbs./ac)	53			
Application Method	Surface applied and incorporated within 7 days or injected 2" below the surface	Surface applied or incorporated more than 7 days after application	Surface applied on frozen or snow covered ground	
		x		
Land Slope %	0 - 8 %	8.1 - 15 %	> 15.1 %	
	x			
Erosion Rate Greater Than "T"	No	Yes		
	x			
Flooding Frequency	None	Occasionally	Frequently	
	x			
Distance of Manure Application to Perennial Stream, Pond, Well, or Sinkhole	> 100 ft. or Buffer Strip Established	0 - 100 ft.		
	x			
Distance of Manure Application to Intermittent Stream	> 50 ft. or Buffer Strip Established	0 - 50 ft.		
	x			
Depth of Soil	> 20.1 in.	10.1 - 20 in.	0 - 10 in.	
	x			
Rock Fragments in soil surface 3" to 10 " in diameter and exceed 50% by weight or > 10" in diameter and exceed 25% by weight	No	Yes		
	x			
Rocks > 10" in diameter which cover > 3% of the soil surface	No	Yes		
	x			

Non - Nutrient Limited Watershed - Waste Application Rates		
Low Rating	Apply at full rate	Apply up to the following rates of P2O5 annually not to exceed the Nitrogen requirement of the crop: Application of up to 200 lbs/ac P2O5 when surface applied. Application of up to 300 lbs/ac P2O5 when applied through sprinkler irrigation and managed to prevent runoff. Application of up to 400 lbs/ac P2O5 when incorporated within 7 days. When a Split Application is designated, no more than 1/2 the allowed rate of P2O5 will be applied per application at least 30 days apart. On occassionally flooded soils, application may be made between June 20 through September 20. Application may also be made between February 1 through April 20 on established cool season grasses with at least 4 inches of height.
Nutrient Limited Watershed - Waste Application Rates		

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SUMMARY OF WASTE APPLICATIONS WORKSHEET

Client Name:	Roy Robbins				Planner:	Marty Hern				Date:	5/16/2003		
Field(s)	Total Acres	Field Application Acres	Crop or Grass Grown (include Sequence / Rotation if used)	Crop Yield Goal	Allowable P_2O_5 Application Rate By Field (lbs/ac/yr)	Maximum Manure Application Rate By Field (tons/ac/yr) (Column F x J4)	Maximum Total Manure Application By Field (tons/field) (Column C x G)	Total Manure Nutrient Application (lbs/field)			Additional Fertilizer Nutrients To Be Applied / Yield Goal (lbs/ac)		
								Manure Analysis: (enter below)					
								40	86.1	48.6			
								N **	P_2O_5	K_2O **	N	P_2O_5	K_2O
1		50	B/F	4	100	1.16	58.07	2,323	5,000	2,822	178	0	0
2		20	B/F	4	200	2.32	46.46	1,858	4,000	2,258	99	0	0
3		70	B/F	4	200	2.32	162.60	6,504	14,000	7,902	82	0	0
4		65	B/F	4	200	2.32	150.99	6,039	13,000	7,338	96	0	0
6		40	B/F	4	100	1.16	46.46	1,858	4,000	2,258	104	0	0
8		19	B/F	4	200	2.32	44.13	1,765	3,800	2,145	87	0	0
9		10	B/F	4	100	1.16	11.61	465	1,000	564	145	0	0
10		29	B/F	4	200	2.32	67.36	2,695	5,800	3,274	82	0	0
11		30	B/F	4	200	2.32	69.69	2,787	6,000	3,387	79	0	0
12		9	B/F	4	200	2.32	20.91	836	1,800	1,016	81	0	0
13		14	B/F	4	200	2.32	32.52	1,301	2,800	1,580	81	0	0
14		23	B/F	4	200	2.32	53.43	2,137	4,600	2,597	50	0	0
15		4	B/F	4	200	2.32	9.29	372	800	452	103	0	0
Totals	0	383					774	30,941	66,600	37,593	1,267	0	0

** Numbers in these columns are rounded.

Do not apply manure or organic by-products in the following situations: To areas within 100 feet of a perennial stream, pond, well, or sinkholes unless an established buffer strip is present; To areas within 50 feet of an intermittent stream unless an established buffer strip is present (*the width of all buffers will be used as a set back distance for application purposes*); To fields or portions of fields with >15%; To soils less than 10 inches in depth to parent material; On soils that are frequently flooded; On soils that are frozen, snow covered, or water saturated; On soils where the rock fragments in the surface layer are 3 to 10 inches in diameter and exceed 50% by weight; On soils where rock fragments in the surface layer are >10 inches in diameter and exceed 25% by weight; On soils where rock fragments are >10 inches in diameter which covers >3% of the soil surface and the slope is >8% (*see soil map descriptions*); On areas eroding at levels greater than the soil loss tolerance,"T", from water erosion or active gullies unless following a conservation plan that will reduce erosion below "T".; On soils that are occasionally flooded (*Exception: Waste may be applied on occasionally flooded soils between June 20 and September 20 or between February 1 and April 20 if the area is established to cool season grasses 4 inches in height at the time of application*).

Additional Application Notes and Recommendations

Ctrl + a clears worksheet

For help see instruction sheet under Summary of Waste Application

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