

# WINTER ANNUAL FORAGE BUDGETS FOR GEORGIA

## TECHNICAL INFORMATION FOR BUDGETS

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THE UNIVERSITY OF GEORGIA  
COLLEGE OF AGRICULTURAL &  
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Table 1.A Estimated resource use and costs for field operations, per Acre

Rye

Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread + Seed appl				1.00	Oct							1.0000	6.00	6.00	6.00
Rye Seed	lb											120.0000	0.31	37.20	37.20
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Disk Harrow	14'	2WD 105	0.140	1.00	Oct	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						3.82	2.72	0.84	2.04	0.28	2.88			159.85	172.15
INTEREST ON OPERATING CAPITAL															5.54
UNALLOCATED LABOR															3.60
TOTAL SPECIFIED COST															181.29

Note: Fall 2009 prices. Costs may vary considerably by location

Table 2.A Estimated resource use and costs for field operations, per Acre

Rye

Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.69	1.53	0.31	3.97				9.84
Rye Seed	lb											90.0000	0.31	27.90	27.90
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
TOTALS						5.95	4.24	1.53	3.57	0.59	6.85			150.55	172.69
INTEREST ON OPERATING CAPITAL															6.02
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															184.33

Note: Fall 2009 prices. Costs may vary considerably by location

Table 3.A Estimated resource use and costs for field operations, per Acre

Rye

No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Lime (Spread)	ton											0.5000	30.00	15.00	15.00
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	1.64	3.61	0.39	4.97				14.79
Rye Seed	lb											90.0000	0.31	27.90	27.90
Custom Spread(Truck)	appl			1.00	Feb							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						4.08	2.80	1.64	3.61	0.54	6.48			150.55	169.16
INTEREST ON OPERATING CAPITAL															5.21
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															178.78

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 4.A Estimated resource use and costs for field operations, per Acre  
 Ryegrass  
 Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread + Seed appl				1.00	Oct							1.0000	6.00	6.00	6.00
Ryegrass Seed	lb											30.0000	0.38	11.40	11.40
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Disk Harrow	14'	2WD 105	0.140	1.00	Oct	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
Custom Spread(Truck) appl				1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						3.82	2.72	0.84	2.04	0.28	2.88			166.65	178.95
INTEREST ON OPERATING CAPITAL															4.84
UNALLOCATED LABOR															3.60
TOTAL SPECIFIED COST															187.39

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 5.A Estimated resource use and costs for field operations, per Acre  
 Ryegrass  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.69	1.53	0.31	3.97				9.84
Ryegrass Seed	lb											25.0000	0.38	9.50	9.50
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
Custom Spread(Truck) appl				1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
TOTALS						5.95	4.24	1.53	3.57	0.59	6.85			164.75	186.89
INTEREST ON OPERATING CAPITAL															5.57
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															198.08

Note: Fall 2009 prices. Costs may vary considerably by location

Table 6.A Estimated resource use and costs for field operations, per Acre  
 Ryegrass  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	1.64	3.61	0.39	4.97				14.79
Ryegrass Seed	lb											25.0000	0.38	9.50	9.50
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
Custom Spread(Truck)	appl			1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						4.08	2.80	1.64	3.61	0.54	6.48			164.75	183.36
INTEREST ON OPERATING CAPITAL															4.96
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															192.73

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 7.A Estimated resource use and costs for field operations, per Acre  
Rye/ryegrass  
Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread + Seed appl				1.00	Oct							1.0000	6.00	6.00	6.00
Rye Seed	lb											90.0000	0.31	27.90	27.90
Ryegrass Seed	lb											25.0000	0.38	9.50	9.50
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Disk Harrow	14'	2WD 105	0.140	1.00	Oct	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
Custom Spread(Truck) appl				1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						3.82	2.72	0.84	2.04	0.28	2.88			192.65	204.95
INTEREST ON OPERATING CAPITAL															5.75
UNALLOCATED LABOR															3.60
TOTAL SPECIFIED COST															214.30

Note: Fall 2009 prices. Costs may vary considerably by location

Table 8.A Estimated resource use and costs for field operations, per Acre  
 Rye/ryegrass  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.69	1.53	0.31	3.97				9.84
Rye Seed	lb											75.0000	0.31	23.25	23.25
Ryegrass Seed	lb											20.0000	0.38	7.60	7.60
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
Custom Spread(Truck) appl				1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
TOTALS						5.95	4.24	1.53	3.57	0.59	6.85			186.10	208.24
INTEREST ON OPERATING CAPITAL															6.32
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															220.18

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 9.A Estimated resource use and costs for field operations, per Acre  
 Rye/ryegrass  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	1.64	3.61	0.39	4.97				14.79
Rye Seed	lb											75.0000	0.31	23.25	23.25
Ryegrass Seed	lb											20.0000	0.38	7.60	7.60
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
Custom Spread(Truck)	appl			1.00	Feb							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						4.08	2.80	1.64	3.61	0.54	6.48			186.10	204.71
INTEREST ON OPERATING CAPITAL															5.89
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															215.01

Note: Fall 2009 prices. Costs may vary considerably by location

Table 10.A Estimated resource use and costs for field operations, per Acre  
Wheat/ryegrass  
Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread + Seed appl				1.00	Oct							1.0000	6.00	6.00	6.00
Wheat Seed	lb											90.0000	0.26	23.40	23.40
Ryegrass Seed	lb											25.0000	0.38	9.50	9.50
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Disk Harrow	14'	2WD 105	0.140	1.00	Oct	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
Custom Spread(Truck) appl				1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						3.82	2.72	0.84	2.04	0.28	2.88			188.15	200.45
INTEREST ON OPERATING CAPITAL															5.59
UNALLOCATED LABOR															3.60
TOTAL SPECIFIED COST															209.64

Note: Fall 2009 prices. Costs may vary considerably by location

Table 11.A Estimated resource use and costs for field operations, per Acre  
Wheat/ryegrass  
Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.69	1.53	0.31	3.97				9.84
Wheat Seed	lb											75.0000	0.26	19.50	19.50
Ryegrass Seed	lb											20.0000	0.38	7.60	7.60
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
Custom Spread(Truck) appl				1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
TOTALS						5.95	4.24	1.53	3.57	0.59	6.85			182.35	204.49
INTEREST ON OPERATING CAPITAL															6.19
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															216.30

Note: Fall 2009 prices. Costs may vary considerably by location

Table 12.A Estimated resource use and costs for field operations, per Acre  
Wheat/ryegrass  
No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	1.64	3.61	0.39	4.97				14.79
Wheat Seed	lb											75.0000	0.26	19.50	19.50
Ryegrass Seed	lb											20.0000	0.38	7.60	7.60
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
Custom Spread(Truck)	appl			1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						4.08	2.80	1.64	3.61	0.54	6.48			182.35	200.96
INTEREST ON OPERATING CAPITAL															5.58
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															210.95

Note: Fall 2009 prices. Costs may vary considerably by location

Table 13.A Estimated resource use and costs for field operations, per Acre  
 Oat/ryegrass  
 Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread + Seed appl				1.00	Oct							1.0000	6.00	6.00	6.00
Oat Seed	lb											90.0000	0.31	27.90	27.90
Ryegrass Seed	lb											25.0000	0.38	9.50	9.50
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Disk Harrow	14'	2WD 105	0.140	1.00	Oct	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
Custom Spread(Truck) appl				1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						3.82	2.72	0.84	2.04	0.28	2.88			192.65	204.95
INTEREST ON OPERATING CAPITAL															5.75
UNALLOCATED LABOR															3.60
TOTAL SPECIFIED COST															214.30

Note: Fall 2009 prices. Costs may vary considerably by location

Table 14.A Estimated resource use and costs for field operations, per Acre  
 Oat/ryegrass  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.69	1.53	0.31	3.97				9.84
Oat Seed	lb											75.0000	0.31	23.25	23.25
Ryegrass Seed	lb											20.0000	0.38	7.60	7.60
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
Custom Spread(Truck) appl				1.00	Mar							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.4000	19.00	26.60	26.60
TOTALS						5.95	4.24	1.53	3.57	0.59	6.85			186.10	208.24
INTEREST ON OPERATING CAPITAL															6.32
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															220.18

Note: Fall 2009 prices. Costs may vary considerably by location

Table 15.A Estimated resource use and costs for field operations, per Acre  
 Oat/ryegrass  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.5000	30.00	15.00	15.00
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	1.64	3.61	0.39	4.97				14.79
Oat Seed	lb											75.0000	0.31	23.25	23.25
Ryegrass Seed	lb											20.0000	0.38	7.60	7.60
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
Custom Spread(Truck)	appl			1.00	Feb							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.4000	19.00	26.60	26.60
TOTALS						4.08	2.80	1.64	3.61	0.54	6.48			186.10	204.71
INTEREST ON OPERATING CAPITAL															5.89
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															215.01

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 16.A Estimated resource use and costs for field operations, per Acre  
 Rye/arrowleaf  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												0.9000	19.00	17.10	17.10
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Rye Seed	lb											75.0000	0.31	23.25	23.25
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			133.54	155.96
INTEREST ON OPERATING CAPITAL															6.01
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															167.59

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 17.A Estimated resource use and costs for field operations, per Acre  
 Rye/arrowleaf  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Rye Seed	lb											75.0000	0.31	23.25	23.25
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			133.54	147.48
INTEREST ON OPERATING CAPITAL															5.36
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															157.25

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 18.A Estimated resource use and costs for field operations, per Acre  
 Ryegrass/arrowleaf  
 Conv. till - Drill UNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Ryegrass Seed	lb											20.0000	0.38	7.60	7.60
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
Custom Spread(Truck) appl				1.00	Feb							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			142.89	165.31
INTEREST ON OPERATING CAPITAL															5.82
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															176.75

Note: Fall 2009 prices. Costs may vary considerably by location □

Table 19.A Estimated resource use and costs for field operations, per Acre  
 Ryegrass/arrowleaf  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Ryegrass Seed	lb											20.0000	0.38	7.60	7.60
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						3.54	2.42	0.78	1.72	0.46	5.48			142.89	156.83
INTEREST ON OPERATING CAPITAL															5.25
UNALLOCATED LABOR															3.91
TOTAL SPECIFIED COST															165.99

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 20.A Estimated resource use and costs for field operations, per Acre  
 Rye/ryegrass/arrowleaf  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Rye Seed	lb											60.0000	0.31	18.60	18.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			159.59	182.01
INTEREST ON OPERATING CAPITAL															6.54
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															194.17

Note: Fall 2009 prices. Costs may vary considerably by location

Table 21.A Estimated resource use and costs for field operations, per Acre  
 Rye/ryegrass/arrowleaf  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Rye Seed	lb											60.0000	0.31	18.60	18.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			159.59	173.53
INTEREST ON OPERATING CAPITAL															5.88
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															183.82

Note: Fall 2009 prices. Costs may vary considerably by location

Table 22.A Estimated resource use and costs for field operations, per Acre  
Wheat/ryegrass/ arrowleaf  
Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Wheat Seed	lb											60.0000	0.26	15.60	15.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			156.59	179.01
INTEREST ON OPERATING CAPITAL															6.44
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															191.07

Note: Fall 2009 prices. Costs may vary considerably by location

Table 23.A Estimated resource use and costs for field operations, per Acre  
Wheat/ryegrass/ arrowleaf  
No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Wheat Seed	lb											60.0000	0.26	15.60	15.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			156.59	170.53
INTEREST ON OPERATING CAPITAL															5.78
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															180.72

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 24.A Estimated resource use and costs for field operations, per Acre  
 Oat/ryegrass/ arrowleaf  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Oat Seed	lb											60.0000	0.31	18.60	18.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			159.59	182.01
INTEREST ON OPERATING CAPITAL															6.54
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															194.17

Note: Fall 2009 prices. Costs may vary considerably by location

Table 25.A Estimated resource use and costs for field operations, per Acre  
 Oat/ryegrass/ arrowleaf  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Oat Seed	lb											60.0000	0.31	18.60	18.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											8.0000	1.83	14.64	14.64
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			159.59	173.53
INTEREST ON OPERATING CAPITAL															5.88
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															183.82

Note: Fall 2009 prices. Costs may vary considerably by location

Table 26.A Estimated resource use and costs for field operations, per Acre  
 Rye/arrowleaf/crimson  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Rye Seed	lb											60.0000	0.31	18.60	18.60
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			159.35	181.77
INTEREST ON OPERATING CAPITAL															6.53
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															193.92

Note: Fall 2009 prices. Costs may vary considerably by location

Table 27.A Estimated resource use and costs for field operations, per Acre  
 Rye/arrowleaf/crimson  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Rye Seed	lb											60.0000	0.31	18.60	18.60
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			159.35	173.29
INTEREST ON OPERATING CAPITAL															5.87
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															183.57

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 28.A Estimated resource use and costs for field operations, per Acre  
 Ryegrass/arrowleaf/crimson  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			146.45	168.87
INTEREST ON OPERATING CAPITAL															6.08
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															180.57

Note: Fall 2009 prices. Costs may vary considerably by location

Table 29.A Estimated resource use and costs for field operations, per Acre  
 Ryegrass/arrowleaf/crimson  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			146.45	160.39
INTEREST ON OPERATING CAPITAL															5.42
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															170.22

Note: Fall 2009 prices. Costs may vary considerably by location□

Table 30.A Estimated resource use and costs for field operations, per Acre  
 Rye/ryegrass/arrowleaf/crimson  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck)	appl											1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Rye Seed	lb											60.0000	0.31	18.60	18.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			165.05	187.47
INTEREST ON OPERATING CAPITAL															6.73
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															199.82

Note: Fall 2009 prices. Costs may vary considerably by location

Table 31.A Estimated resource use and costs for field operations, per Acre  
 Rye/ryegrass/arrowleaf/crimson  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Rye Seed	lb											60.0000	0.31	18.60	18.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			165.05	178.99
INTEREST ON OPERATING CAPITAL															6.07
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															189.47

Note: Fall 2009 prices. Costs may vary considerably by location

Table 32.A Estimated resource use and costs for field operations, per Acre  
Wheat/ryegrass/arrowleaf/crimson  
Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck)	appl											1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Wheat Seed	lb											60.0000	0.26	15.60	15.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			162.05	184.47
INTEREST ON OPERATING CAPITAL															6.63
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															196.72

Note: Fall 2009 prices. Costs may vary considerably by location

Table 33.A Estimated resource use and costs for field operations, per Acre  
Wheat/ryegrass/arrowleaf/crimson  
No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Wheat Seed	lb											60.0000	0.26	15.60	15.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			162.05	175.99
INTEREST ON OPERATING CAPITAL															5.97
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															186.37

Note: Fall 2009 prices. Costs may vary considerably by location

Table 34.A Estimated resource use and costs for field operations, per Acre  
 Oat/ryegrass/arrowleaf/crimson  
 Conv. till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Disk Harrow	14'	2WD 105	0.140	1.00	Sep	1.91	1.36	0.42	1.02	0.14	1.44				6.15
Custom Spread(Truck) appl												1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												1.0000	19.00	19.00	19.00
Phosphate (18-46-0) cwt												1.1000	20.00	22.00	22.00
Potash (0-0-60) cwt												0.8500	33.00	28.05	28.05
Drill w/ small-seed	12'	2WD 105	0.157	1.00	Oct	2.13	1.52	0.78	1.72	0.31	3.97				10.12
Oat Seed	lb											60.0000	0.31	18.60	18.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck) appl				1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0) cwt												0.9000	19.00	17.10	17.10
TOTALS						5.95	4.24	1.62	3.76	0.59	6.85			165.05	187.47
INTEREST ON OPERATING CAPITAL															6.73
UNALLOCATED LABOR															5.62
TOTAL SPECIFIED COST															199.82

Note: Fall 2009 prices. Costs may vary considerably by location

Table 35.A Estimated resource use and costs for field operations, per Acre  
 Oat/ryegrass/arrowleaf/crimson  
 No-till - DrillUNIVERSITY OF GEORGIA, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.7500	30.00	22.50	22.50
Rotary Mower	8'	2WD 75	0.147	1.00	Sep	1.41	0.90			0.14	1.51				3.82
Custom Spread(Truck)	appl			1.00	Oct							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											1.0000	19.00	19.00	19.00
Phosphate (18-46-0)	cwt											1.1000	20.00	22.00	22.00
Potash (0-0-60)	cwt											0.8500	33.00	28.05	28.05
Drill N/T w/ sm seed	12'	2WD 105	0.196	1.00	Oct	2.67	1.90	0.18	0.40	0.39	4.97				10.12
Oat Seed	lb											60.0000	0.31	18.60	18.60
Ryegrass Seed	lb											15.0000	0.38	5.70	5.70
Arrowleaf Clvr Seed	lb											6.0000	1.83	10.98	10.98
Crimson Clover Seed	lb											12.0000	0.76	9.12	9.12
Custom Spread(Truck)	appl			1.00	Jan							1.0000	6.00	6.00	6.00
Amm Nitrate (34-0-0)	cwt											0.9000	19.00	17.10	17.10
TOTALS						4.08	2.80	0.18	0.40	0.54	6.48			165.05	178.99
INTEREST ON OPERATING CAPITAL															6.07
UNALLOCATED LABOR															4.41
TOTAL SPECIFIED COST															189.47

Note: Fall 2009 prices. Costs may vary considerably by location