

#### Record of Cooperator Decisions



Cooperator:

Farm

Date: May 2012

	Planr	ned	Appl	ied	Land use Treatment/Conservation Practices
Field	Amount	mo/yr	Amount	mo/yr	(See Job Sheets section for details)
Pastures	Up to 1750 ft	4/2014			Fencing, Perimeter – Install cross fencing to facilitate rotational grazing.
Pastures	Around 550 ft	4/2014	,		Fencing, Cross – Install cross fencing to facilitate rotational grazing.
Pastures	Around 930 ft	4/2014			Fencing, Buffer – Install fencing to keep livestock ou of the wet area / drainage.
Pastures	Around 450 ft	4/2014			Fencing, Heavy Use Area – Install fencing to keep livestock in winter use area and off pastures.
Pastures	3.95 acres	10/2013			Pasture and Hayland Planting—Start a program of restoring pastures one or part of one at a time. Aggressively harrow, rake, and overseed with pasture grass. Allow reseeded area to rest and recover befor grazing it again. Overseed bare soil as ASAP.
Pastures	3.70 acres	10/2014			Access Control – Restrict animal access from pastures when extremely wet or when there is standing water.
Pastures	0.25 acres	5/2014			Access Control – Restrict animal access from winter use area in summer to allow for rest and regrowth.
Hedge- row	405 ft	10/2014			Hedgerow Planting - Investigate options of planting native tree and shrub hedgerows along ponds and drainage. KCD could help with the invasive control, plant installation maintenance of plants. Fence needs to be 15 ft on both sides.
Confine- ment area	A needed	As Needed			Heavy Use Area Protection – Use footing material in winter use area to prevent mud. Install 1 foot of hogs fuel as needed.

	Planr	ned	Арр	lied	Land use Treatment/Conservation Practices
Field	Amount	mo/yr	Amount	mo/yr	(See Job Sheets section for details)
Pastures	3.70 acres	5/2014		,	Prescribed Grazing - Graze pasture using a rotational grazing system. Graze pasture to a 3" stubble height and move animals to the next pasture in the rotation. Allow pasture to rest until it has reached 6"-9" before animals are returned. Do not graze fall growth below 3" as well. This is critical for lush spring regrowth. If pastures grows beyond 10", mow it to 3". Harrow or drag pasture to fracture compacted soil, increase infiltration, increase plant vigor and increase productivity. This will also break up manure clods and spread them around. Mow pastures to 3" height when animals are pulled off to rest it.
Forest	14.45 acres	10/2014			Tree and Shrub Establishment—Establish natives trees and shrubs in the forest area.
Forest	Up to 14.45 acres	10/2014			Herbaceous Weed Control—Control blackberry in the forested area of the farm.

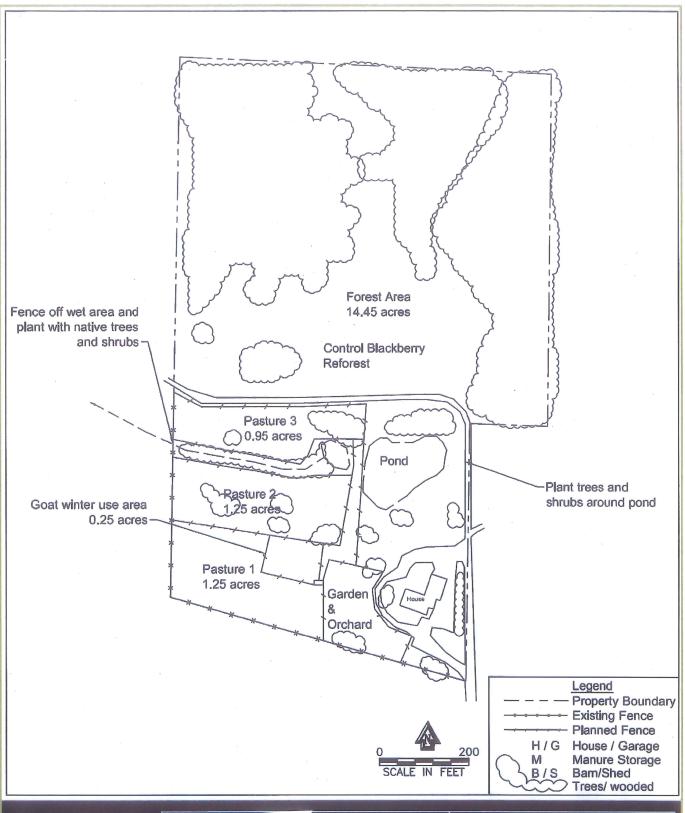
The owner/operator is responsible for obtaining all permits, right of ways, and/or easements that are needed to implement this plan. The owner/operator is responsible for contacting utilities and assuring the work does not harm their facilities. The owner/operator is responsible for compliance with all federal, state, and local laws, ordinances, codes, and regulations.

#### **Good Faith Agreement**

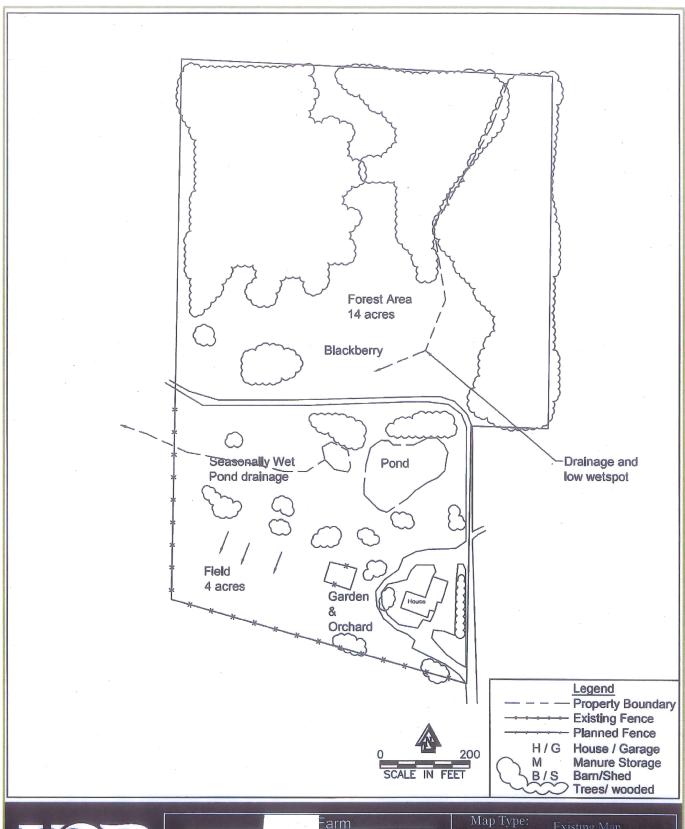
I was an active participant in the development of my Farm Conservation Plan. I have reviewed the options and alternatives that are available.

This plan was developed to reach my property management goals while protecting and enhancing the natural resources on the property. It is my intention to follow the planned schedule to implement the recommended best management practices.

Cooperator:	Date
This Farm Conservation Plan meets King Conservation D	istrict Conservation Plan Standards
Planned by:King CD Planner	Date
Approved by:	Date











#### I. Inventory & Evaluation

#### PROPERTY INFORMATION:

Cooperator:

Property Location:

Parcel #:

Total Acreage: 22.46 acres

#### COOPERATOR GOALS:

- Open Space Ag to PBRS conversion
- Farm layout

#### **OPERATION SUMMARY:**

The landowners just purchased the property. They are in the process of cleaning things up and would like help planning for future. The are not quite sure what type of animals they want, but it could be cows or goats.

#### **EXISTING CONDITIONS AND RESOURCE CONCERNS:**

Evaluated using the NRCS methods for Soil, Water, Air, Plants, Animals, and Humans (SWAPAH)

#### Soils:

Soils on the property are mapped by the Natural Resources Conservation Service:

EvD: Everett gravelly sandy loam, 15-30 percent slope

RdC: Ragnar—Indianola association, sloping

BeC: Beausite gravelly sandy loam, 6-15 percent slope

Refer to section 3 in this plan for general soil mapping and soil map unit description. See the Soil Survey of King County, Washington for additional soils information. A helpful online resource for creating soils maps is the USDA web soil survey page:

http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

All of the farm portions of the property are mapped as the Ragnar. These soils are loamy fine sand and ashy fine sandy loam. They are a farmland of state importance. They are well drained and very productive, The sand basis makes plant rooting really easy. They can be droughty in the summer as they have low water holding capacity and we don't get much rainfall in the summer.

#### Water (Harbor, Streams, Wetlands, Drainage):

This property is located in the sub-basin of the

Watershed, or WRIA. There is a drainage that flows down hill from the northeast corner and settles in a low spot north of the neighbor's driveway. This a mapped drainage and wet area.



There are two side-by-side ponds in the center of the farm. These are manmade but likely dug into wetland areas in the past. These ponds overflow to the west and there is a drainage / wetland area due that flows west. Eventually it empties into . The drainage mostly covered with reed canary grass.

#### Air:

No issue

#### Plants:

The pastures good in condition. Most have been seasonally mowed. The field area around the wet drainage has not be managed and is has some good blackberry.

#### **Animals:**

Wildlife: There are several nice stands of Douglas firs. A large portion of the property will be managed for wildlife habitat / forestry.

<u>Livestock:</u> There are no livestock, but plans include a few cows and / or goats.

#### **Humans:**

This plan is being to address natural resource management concerns of the property and to help the landowner meet their goals of property livestock management. The plan is also being written for the Open Space Ag to PBRS conversion for the Current Use Taxation Program.

<u>Cultural Resources</u>: Should cultural resources be discovered during installation of any planned practices, work should cease until a qualified site review is performed. If federal payments are related to any installation, work must cease pending evaluation. Washington State laws RCW 27.53 and RCW 27.44 protect all Native American and archaeological sites. For questions about these laws, or to report the discovery of a cultural resource, contact Stephanie Kramer at the Office of Archaeology and Historic Preservation in Olympia at 360-586-3083.





Parcel # 22.46 Acres, Sec Map Type: 2009 Map
Planner: Jay Mirro
Source: King County GIS
Date: May 2013

#### 2009 Aerial

Highlighted Feature
County Boundary

X Mountain Peaks
Highways
Incorporated Area
Streets
(cont)



2009 Color Aerial Photos (12in)

# Critical Areas/Shaded Relief Map removed to maintain privacy of landowner

# 1998 Aerial Map removed to maintain privacy of landowner

# Soils map removed to maintain privacy of landowner



#### Soils Descriptions

#### BeC-Beausite gravelly sandy loam, 6 to 15 percent slopes

Map Unit Setting

Elevation: 0 to 1,500 feet

Mean annual precipitation: 30 to 50 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 160 to 220 days

**Map Unit Composition** 

Beausite and similar soils: 95 percent

Minor components: 5 percent

**Description of Beausite** 

Setting

Parent material: Till over residuum from sandstone

**Properties and qualities** 

Slope: 6 to 15 percent

Depth to restrictive feature: 24 to 40 inches to lithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/

hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 3.5 inches)

**Interpretive groups** 

Farmland classification: Not prime farmland

Land capability (nonirrigated): 4s

Hydrologic Soil Group: C

Typical profile

0 to 6 inches: Gravelly ashy sandy loam 6 to 19 inches: Gravelly ashy sandy loam 19 to 38 inches: Very gravelly sandy loam

38 to 42 inches:

**Minor Components** 

Norma

Percent of map unit: 3 percent

Landform: Depressions

Seattle

Percent of map unit: 2 percent

Landform: Depressions



#### Soils Descriptions

#### EvD—Everett gravelly sandy loam, 15 to 30 percent slopes

Map Unit Setting

Mean annual precipitation: 30 to 45 inches Mean annual air temperature: 50 degrees F

Frost-free period: 180 days

**Map Unit Composition** 

Everett and similar soils: 100 percent

**Description of Everett** 

Setting

Landform: Terraces

Parent material: Glacial outwash with a component of volcanic ash in the upper part

**Properties and qualities** 

Slope: 15 to 30 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.0 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 4e

Hydrologic Soil Group: A

Typical profile

0 to 17 inches: Gravelly ashy sandy loam 17 to 32 inches: Very gravelly sandy loam 32 to 60 inches: Very gravelly coarse sand

#### RdC—Ragnar-Indianola association, sloping

**Map Unit Setting** 

Elevation: 300 to 1,000 feet

Mean annual precipitation: 30 to 65 inches Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 150 to 210 days

**Map Unit Composition** 

Ragnar and similar soils: 45 percent Indianola and similar soils: 40 percent

**Description of Ragnar** 

Setting



Landform: Eskers, kames, terraces
Parent material: Glacial outwash

#### **Properties and qualities**

Slope: 2 to 15 percent

Depth to restrictive feature: 20 to 40 inches to strongly contrasting textural stratification

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 3.7 inches)

#### **Interpretive groups**

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3e

Hydrologic Soil Group: A

#### Typical profile

0 to 4 inches: Ashy fine sandy loam 4 to 27 inches: Ashy fine sandy loam

27 to 60 inches: Loamy sand

#### Description of Indianola Setting

Landform: Terraces

Parent material: Glacial drift

#### **Properties and qualities**

Slope: 2 to 15 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.0 inches)

#### Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3e

Hydrologic Soil Group: A

#### Typical profile

0 to 6 inches: Loamy fine sand 6 to 30 inches: Loamy fine sand

30 to 60 inches: Sand

5/13/2013	ANIMAL	WASTE NUTRIENT BALANCE		
	FOR:		By:	Mirro
	COUNTY: King		Original file date:	05/08/13
	Scenario:	G	oats	
	Notes:			

Туре		Waste Pr	oduction	n	Animal		Animal Number of			Net Nutrients Available						
of	N	P	K	Volume	Animal	unit equivalent	each s			Grazing		- (	Confined			
Animal	lb/day	lb/day	lb/day	cu ft/d	numbers	(AUE)	Grazing	Confined	N	P	K	N	P	K		
Goats	0.45	0.07	0.30	0.3	10	0.15	225	140	66	22	99	33	12	53		
							****									
	-															
													-			
			Total a	ve. AU's:	1.5			TOTALS:	66	22	99	33	12	53		

Nutrient Retention Value (%) (See tables at right)

		Grazing		Confined					
Type of Loss	N	P	K	N	P	K			
Storage Loss	100%	100%	100%	75%	90%	90%			
Volitalization	70%	100%	100%	80%	100%	100%			
Denitrification	85%	100%	100%	85%	100%	100%			
Mineralization	73%	93%	98%	68%	90%	93%			

Confinement Bedding & Manure Volume

Bedding Material	cu yds/yr
Shavings/bedding	. 2
Manure	2
Total	4
Reduction factor	0.8
Total volume material	3

	eld	Prod.	Annual I	Annual Nutrients Removed by			N	Requi	red per Fi	eld (1b)	Soil test results		
Inver	ntory	(T/A)	Cre	Crop (#/Ton crop)			Req'd				ppm		
Field	Acres		N	Р	K	(lb/ac)	(lb/ac)	N	P	K	N	P	K
1	1.25	3.0	66.0	4.0	34.0	50	148	185	15	128			
2	1.25	3.0	66.0	4.0	34.0	50	148	185	15	128			
3	0.95	3.0	66.0	4.0	34.0	50	148	141	11	97			
4	0.50	2.0	66.0	4.0	34.0	50	82	41	4	34			
		-											
				***	-								
	Field 1 2 3	1 1.25 2 1.25 3 0.95	Field         Acres           1         1.25         3.0           2         1.25         3.0           3         0.95         3.0	Field         Acres         N           1         1.25         3.0         66.0           2         1.25         3.0         66.0           3         0.95         3.0         66.0	Field         Acres         N         P           1         1.25         3.0         66.0         4.0           2         1.25         3.0         66.0         4.0           3         0.95         3.0         66.0         4.0	Field         Acres         N         P         K           1         1.25         3.0         66.0         4.0         34.0           2         1.25         3.0         66.0         4.0         34.0           3         0.95         3.0         66.0         4.0         34.0	Field         Acres         N         P         K         (lb/ac)           1         1.25         3.0         66.0         4.0         34.0         50           2         1.25         3.0         66.0         4.0         34.0         50           3         0.95         3.0         66.0         4.0         34.0         50	Field         Acres         N         P         K         (lb/ac)         (lb/ac)           1         1.25         3.0         66.0         4.0         34.0         50         148           2         1.25         3.0         66.0         4.0         34.0         50         148           3         0.95         3.0         66.0         4.0         34.0         50         148	Field         Acres         N         P         K         (lb/ac)         N           1         1.25         3.0         66.0         4.0         34.0         50         148         185           2         1.25         3.0         66.0         4.0         34.0         50         148         185           3         0.95         3.0         66.0         4.0         34.0         50         148         141	Field         Acres         N         P         K         (lb/ac)         (lb/ac)         N         P           1         1.25         3.0         66.0         4.0         34.0         50         148         185         15           2         1.25         3.0         66.0         4.0         34.0         50         148         185         15           3         0.95         3.0         66.0         4.0         34.0         50         148         141         11	Field         Acres         N         P         K         (lb/ac)         (lb/ac)         N         P         K           1         1.25         3.0         66.0         4.0         34.0         50         148         185         15         128           2         1.25         3.0         66.0         4.0         34.0         50         148         185         15         128           3         0.95         3.0         66.0         4.0         34.0         50         148         141         11         97	Field         Acres         N         P         K         (lb/ac)         N         P         K         N           1         1.25         3.0         66.0         4.0         34.0         50         148         185         15         128           2         1.25         3.0         66.0         4.0         34.0         50         148         185         15         128           3         0.95         3.0         66.0         4.0         34.0         50         148         141         11         97	Field         Acres         N         P         K         (lb/ac)         (lb/ac)         N         P         K         N         P           1         1.25         3.0         66.0         4.0         34.0         50         148         185         15         128         15           2         1.25         3.0         66.0         4.0         34.0         50         148         185         15         128         15           3         0.95         3.0         66.0         4.0         34.0         50         148         141         11         97         14

Fertilizer Value		N	P	K
Total Nutrients Required/Yr for Crop Production on:	3.95 acres	552	45	386
Net Nutrients Available/Yr for Crop Production on:	3.95 acres	99	34	152
Total Excess Pounds of Nutrients on:	3.95 acres			
	Per acre			
Additional Pounds of Nutrients Needed on:	3.95 acres	453	12	234
	Per acre	115	3	59
Net Nutrients Available in Stored Waste, Annually:		33	12	53
Amount of Stored Nutrients/cubic yard available to app	ly to fields:	9.5	3.4	15.2
Net Nutrients Available from Grazing, Annually:		66	22	99
Amount of Nutrients/acre in droppings, Assuming EQU	AL Distribution:	17	6	25
Percent of Nutrient Needs Supplied by Animals:		18%	75%	39%

#### LIVESTOCK FEED & FORAGE BALANCE WORKSHEET

5/13/2013

For:

Original file date: 5/8/2013

FORAGE NEEDS

County: King Scenario: Goats

I OKO I OLD NEEDED			_	ociiano.									· · · · · · · · · · · · · · · · · · ·		
Livestock	Animal Unit				Livesto	ck Numb	ers and A	nimal Uni	it Months	(AIIMe*	**) Requi	remente		7	Total AUMs
Type	Factor **		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Goats	0.150	#	10.0		10.0			10.0	10.0						Needed/Yr
Conts	0.150	AUM's	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	10.0	10
		#	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1,5	1,5	1.5	18.
		AUM's					-						-		
	+	#													
		AUM's													
	+	#									-				
		AUM's	-												
		#													
		AUM's													
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	-	#													
		AUM's		-											
		#													
		AUM's													
		#													
		AUM's			_						_				
		710/11/3													
Total Livestock No.s/Mo.			10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Total AUMs Needed/Mo.			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	18.0

<sup>\*\*</sup> May be changed to reflect a specific farm.

Select representative soil description: 14 MLRA A2-Soils with moderate available water-holding capacity Major land resource area description: Puget Trough lowlands

#### FORAGE AVAILABILITY

FORAGE AVAILABILIT	T A														
		Yield				For	age Avail	able per F	ield by M	lonth (AU	Ms)				Total
Field Number/ Forage	Acres	(tons/	OCT	NOV	DEC	JAN	FEB	MAR	APR'	MAY	JUN	JUL	AUG	SEP	AUMs
Suitability Group (see below)		acre)	6%	3%	1%	1%	4%	11%	17%	22%	20%	11%	1%	3%	Produced/Yr
1	1.25	3.0	0.5	0.2	0.1	0.1	0.3	0.9	1.4	1.8	1.7	0.9	0.1	0.2	8
2	1.25	3.0	0.5	0.2	0.1	0.1	0.3	0.9	1.4	1.8	1.7	0.9	0.1	0.2	8
3	0.95	3.0	0.4	0.2	0.1	0.1	0.3	0.7	1.1	1.4	1.3	0.7	0.1	0.2	6
4	0.50	2.0	0.1	0.1	0.0	0.0	0.1	0.2	0.4	0.5	0.4	0.2	0.0	0.1	2
		_		-											
															,
	,														
Total Acres =	3.95	-													
Total AUMs Available per M			1.5	0.7	0.3	0.2	1.0	2.5	4.0		5.0	0.5	0.0		AUMs/yr
Feed Balance(AUMs)	onto		0.00	-0.75	-1.25	-1.25	-0.50	1.25	<b>4.2</b> 2.74	5.5 3.99	5.0	2.7	0.2	0.7	25.0
Total AUMs Air-dry Pasture Need	lad non Mar	nella	1.5	1.5	1.5	1.5	1.5	1.23	1.5	1.5	3.49	1.25	-1.25	-0.75	
	-		100%	50%	17%	17%	67%	183%	283%	366%	333%		1.5	1.5	
Percentage of feed supplied by pas				3076	1/70	1/70						183%	17%	50%	
Grazing Days per month (all			31.0				20.6	31.0	30.0	31.0	30.0	31.0	5.2		224.7
Acres per Grazing Day for all A			0.13				0.19	0.07	0.05	0.03	0.04	0.07	0.79	0.26	
SURPLUS Feed Produced/Mo. (A							1.25	2.74	3.99	3.49	1.25				
SURPLUS Feed Produced/Mo. (T	SURPLUS Feed Produced/Mo. (Tons)							0.56	1.24	1.80	1.57	0.56			
ADDITIONAL Pasture Feed Need	ADDITIONAL Pasture Feed Needed/Mo.(AUMs) 0.00 0.8						0.5						1.3	0.8	
ADDITIONAL Feed Needed as H	lay (Tons)*		0.00	0.34	0.56	0.56	0.23						0.56	0.34	2.6
							Total Fee	ed (Tons)	Needed	for Year	as Hay* =	= -			-3.1

<sup>\*\*\*</sup> One AUM = Amount of forage necessary to feed one 1000lb animal for one month

<sup>\*</sup> One AUM equals 900 lb of air-dry pasture forage or 660 lb of hay because of less wasted feed with hay

5/13/2013		ANIN FOR: OUNTY: cenario: Notes:	King	VASTE	NUTR	ENT BA	LANCE	Cow		Original í	By: N		05/08/13	
Туре		Waste P1	oductio	n	+ .	Animal	Managhan			1	Net Nutrie	nts Availa	ble	
of	N	Ρ.	K	Volume	Animal	unit equivalent	Number of			Grazing			Confined	
Animal	lb/day	lb/day	lb/day	cu ft/d	numbers	(AUE)	Grazing	Confined	N	P	K	N	Р	K
Cow	0.33	0.12	0.26	1.0	3	0.80	180		62	48	110			
,	-		Total a	ve. AU's:	2.4			TOTALS:	62	48	110			

	Nut	rient Re	tention	Value (%)	(See tables	at right)
		Grazing			Confined	
Type of Loss	N	P	K	N	P	K
Storage Loss	100%	100%	100%	75%	90%	90%
Volitalization	70%	100%	100%	80%	100%	100%
Denitrification	85%	100%	100%	85%	100%	100%
Mineralization	73%	93%	98%	68%	90%	93%

Confinement Bedding & l	Manure Volu	ıme
Bedding Material	cu yds/yr	
Shavings/bedding		
Manure		
Total		
Reduction factor	0.8	
Total volume material		

		eld	Prod.		Nutrients Re		Soil	N	Requi	red per Fi	eld (lb)	S	oil test resi	ults
	_	ntory	(T/A)	Cro	op (#/Ton ci	op)	Mineral	Req'd					ppin	
Crop/ Major Species	Field	Acres		N	P	K	(lb/ac)	(lb/ac)	N	P	K	N	P	K
Pasture 1	1	1.25	3.0	66.0	4.0	34.0	50	148	185	15	128	1.0		
Pasture 2	2	1.25	3.0	66.0	4.0	34.0	50	148	185	15	128			
Pasture 3	3	0.95	3.0	66.0	4.0	34.0	50	148	141	11	97			
Winter use	4	0.50	2.0	66.0	4.0	34.0	50	82	41	4	34		1	
		1												

Fertilizer Value		N	P	K
Total Nutrients Required/Yr for Crop Production on:	3.95 acres	552	45	386
Net Nutrients Available/Yr for Crop Production on:	3.95 acres	62	48	110
Total Excess Pounds of Nutrients on:	3.95 acres		3	
	Per acre		1	
Additional Pounds of Nutrients Needed on:	3.95 acres	490		276
	Per acre	124		70
Net Nutrients Available in Stored Waste, Annually:			,	
		-	-	
Amount of Stored Nutrients/cubic yard available to appl	y to fields:	1		
Net Nutrients Available from Grazing, Annually:		62	48	110
Amount of Nutrients/acre in droppings, Assuming EQU	AL Distribution:	16	12	28
D. C. C. L. C. L. L. C. L.				
Percent of Nutrient Needs Supplied by Animals:		11%	106%	29%

#### LIVESTOCK FEED & FORAGE BALANCE WORKSHEET

5/13/2013

For:

Original file date: \_\_\_\_5/8/2013

FORAGE NEEDS

County: King Scenario: Cow

Livestock	Animal Unit				Livert	ack Numi	nere and A	nimal IIn	it Months	(AUMs*	**\ Pagui	ramanta			Total AUMs
			OCT	NOV									ATIO	OFT	
Туре	Factor **			NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Needed/Yr
Cow	0.800	#	3.0							3.0	3.0	3.0		3.0	
		AUM's	2.4							2.4	2.4	2.4	2.4	2.4	14.
		#									_				
		AUM's													
		#													
		AUM's													
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		AUM's													
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		AUM's													
		#					<b>†</b>								
		AUM's													
		#			-		<u> </u>	-	-						
		AUM's			-										
	-	#	-		-	-	-	-	-						
					-	-	-								
	_	AUM's								-					
		#			-		-								
		AUM's													
Total Livestock No.s/Mo.			3.0	,						3.0.	3.0	3.0	3.0	3.0	
Total AUMs Needed/Mo.			2.4			7				2.4	2.4	2.4	2.4	2.4	14.

<sup>\*\*</sup> May be changed to reflect a specific farm.

Select representative soil description: 14 MLRA A2-Soils with moderate available water-holding capacity Major land resource area description: Puget Trough lowlands

#### FORAGE AVAILABILITY

FORAGE AVAILABILI	I Y					,									
		Yield				For	age Avail	able per F	ield by M	onth (AU	Ms)				Total
Field Number/ Forage	Acres	(tons/	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AUMs
Suitability Group (see below)		acre)	6%	3%	1%	1%	4%	11%	17%	22%	20%	11%	1%	3%	Produced/Yr
1	1.25	3.0	0.5	0.2	0.1	0.1	0.3	0.9	1.4	1.8	1.7	0.9	0.1	0.2	8
2	1.25	3.0	0.5	0.2	0.1	0.1	0.3	0.9	1.4	1.8	1.7	0.9	0.1	0.2	8
3	0.95	3.0	0.4	0.2	0.1	0.1	0.3	0.7	1.1	1.4	1.3	0.7	0.1	0.2	6
4	0.50	2.0	0.1	0.1	0.0	0.0	0.1	0.2	0.4	0.5	0.4	0.2	0.0	0.1	2
							4						7		
Total Acres =	3.95														AUMs/vr
Total AUMs Available per M	onth		1.5	0.7	0,2	0.2	1.0	2.7	4.2	5.5	5.0	2.7	0.2	0.7	25.0
Feed Balance(AUMs)			-0.90	0.75	0.25	0.25	1.00	2.75	4.24	3.09	2.59	0.35	-2.15	-1.65	
Total AUMs Air-dry Pasture Need	ded per Mo	nth	2.4							2.4	2.4	2.4	2.4	2.4	
Percentage of feed supplied by pa	sture/month	. ,	62%							229%	208%	114%	10%	31%	
Grazing Days per month (all			19.4				31.0	31.0	30.0	31.0	30.0	31.0	3.2		215.9
Acres per Grazing Day for all			0.20				######	######	######	0.06	0.06	0.11	1.27	0.41	
SURPLUS Feed Produced/Mo. (A			00	0.75	0.25	0.25	1.00	2.75	4.24	3.09	2,59	0.35	1.27	0.41	
SURPLUS Feed Produced/Mo. (7				0.34	0.11	0.11	0.45	1.24	1.91	1.39	1.17	0.16			
ADDITIONAL Pasture Feed Nee		IMs)	0.90	. 0154	3411	0.11	0.45	1127	1.71	1107	2127	0.10	2,2	1.7	
ADDITIONAL Feed Needed as I			0.41										0.97	0.74	
ADDITIONAL FEED NEEded as F	iay (10115)	· ·	0.41				Total Fo	ed (Tone)	Needed	For Voor	ac Hau*		0.37	0.74	-4.8
							rotal Pe	er (10112)	1 vecueu	v. redi	as may "	-			-4.8

<sup>\*\*\*</sup> One AUM = Amount of forage necessary to feed one 1000lb animal for one month

<sup>\*</sup> One AUM equals 900 lb of air-dry pasture forage or 660 lb of hay because of less wasted feed with hay



## JOBSHEET Prescribed Grazing

ner:	Lifetime of Practice: 5 years
Decree (A. J. WALLA CO. L.)	
Purpose (check all that apply)  Improve or maintain the health and vigor of plant communities.	Reduce accelerated soil erosion, and maintain or improve soil condition.
Improve or maintain quantity and quality of forage for livestock health and productivity.	Improve or maintain the quantity and quality of food and/or cover available for wildlife.
	☐ Promote economic stability
Forage Needs	
Livestock Type: Goats	
AUEs: <u>18</u>	
Total AUMs Needed/Month: 1.5	
Forage Availability (field number, acres, and yi	eld)
Pasture 1, 1.25 acres, 3 t/a	
Pasture 2, 1.25 acres, 3 t/a Pasture 3, 0.95 acres, 3 t/a	
Pasture 4, 0.50 acres, 2 t/a	
1 asture 4, 0.30 acres, 2 va	
Grazing days/Year: 225	
Total Feed (Tons) needed for Year as Hay*: 2.6 *One AUM equals 900lb of air=dry pasture forage	or 660lb of hay because of less wasted feed from hay

#### **Permits**

Are there clearing or grading permits necessary for the project? If so, please list below and include a copy of the permit.

#### **Operation and Maintenance**

Remove livestock whenever soils are saturated or grass is grazed down to 3". Allow livestock access to field once the grass has a reached a height of 6"-8" and the soil is no longer saturated.

**Operation.** Prescribed Grazing will be applied on a continuing basis throughout the occupation period of all grazing units.

Adjustments will be made as needed to ensure that the goals and objectives of the prescribed grazing strategy are met.

Maintenance. All facilitating practices (Fence, Pest Management) that are needed to effect adequate grazing distribution as planned by this practice standard will be maintained in good working order.

#### Additional Specifications and Notes:

According to King County Code 21A.24.045 grazing in critical areas is allowed if:

- Limited to activities in continuous existence since January 1, 2005, with no expansion within the critical area or critical area buffer. "Continuous existence" includes cyclical operations and managed periods of soil restoration, enhancement or other fallow states associated with these horticultural and agricultural activities.
- Allowed for expansion of existing or new agricultural activities where:
  - A. the site is predominately involved in the practice of agriculture;
  - B. there is no expansion into an area that:
    - 1. has been cleared under a class I, II, II, IV-S or nonconversion IV-G forest practice permit; or
    - 2. is more than ten thousand square feet with tree cover at a uniform density more than ninety trees per acre and with the predominant mainstream diameter of the trees at Least four inches diameter at breast height, not including areas that are actively managed as agricultural crops for pulpwood, Christmas trees or ornamental nursery stock
  - C. the activities are in compliance with an approved farm plan in accordance with K.C.C.21A.24.051
  - D. All best management practices associated with the activities specified in the farm management plan are installed and maintained.

#### According to K.C.C. 21A.30.045

The farm plan shall, "Seek to achieve a twenty-five foot buffer of diverse, mature vegetation between grazing areas and the ordinary high water mark of all type S and F aquatic areas and the wetland edge of any category I, II, or III wetland with the exception of grazed wet meadows... avoid having manure accumulate in or within ten feet of type N or O waters."



### JOBSHEET Prescribed Grazing

owner:	Lifetime of Practice: 5 years
Purpose (check all that apply)   ☐ Improve or maintain the health and vigor of plant communities.  ☐ Improve or maintain quantity and quality of forage for livestock health and productivity.	<ul> <li>Reduce accelerated soil erosion, and maintain or improve soil condition.</li> <li>Improve or maintain the quantity and quality of food and/or cover available for wildlife.</li> </ul>
	☐ Promote economic stability
Forage Needs	
Livestock Type: Cows	
AUEs: 14.4	
Total AUMs Needed/Month: 2.4	
Forage Availability (field number, acres, and yiel	d)
Pasture 1, 1.25 acres, 3 t/a	
Pasture 2, 1.25 acres, 3 t/a	
Pasture 3, 0.95 acres, 3 t/a	
Pasture 4, 0.50 acres, 2 t/a	
Grazing days/Year: 180	
Total Feed (Tons) needed for Year as Hay*: 4 *One AUM equals 900lb of air=dry pasture forage of	or 660lb of hay because of less wasted feed from hay.
Percentage of Annual Feed Needs Grown (Air-Dry	P 7 1 1 4 > 000/

#### **Permits**

Are there clearing or grading permits necessary for the project? If so, please list below and include a copy of the permit.

#### Operation and Maintenance

Remove livestock whenever soils are saturated or grass is grazed down to 3". Allow livestock access to field once the grass has a reached a height of 6"-8" and the soil is no longer saturated.

**Operation.** Prescribed Grazing will be applied on a continuing basis throughout the occupation period of all grazing units.

Adjustments will be made as needed to ensure that the goals and objectives of the prescribed grazing strategy are met.

Maintenance. All facilitating practices (Fence, Pest Management) that are needed to effect adequate grazing distribution as planned by this practice standard will be maintained in good working order.

#### Additional Specifications and Notes:

According to King County Code 21A.24.045 grazing in critical areas is allowed if:

- Limited to activities in continuous existence since January 1, 2005, with no expansion within the critical area or critical area buffer. "Continuous existence" includes cyclical operations and managed periods of soil restoration, enhancement or other fallow states associated with these horticultural and agricultural activities.
- Allowed for expansion of existing or new agricultural activities where:
  - A, the site is predominately involved in the practice of agriculture;
  - B. there is no expansion into an area that:
    - 1. has been cleared under a class I, II, II, IV-S or nonconversion IV-G forest practice permit; or
    - 2. is more than ten thousand square feet with tree cover at a uniform density more than ninety trees per acre and with the predominant mainstream diameter of the trees at Least four inches diameter at breast height, not including areas that are actively managed as agricultural crops for pulpwood, Christmas trees or ornamental nursery stock
  - C. the activities are in compliance with an approved farm plan in accordance with K.C.C.21A.24.051
  - D. All best management practices associated with the activities specified in the farm management plan are installed and maintained.

#### According to K.C.C. 21A.30.045

The farm plan shall, "Seek to achieve a twenty-five foot buffer of diverse, mature vegetation between grazing areas and the ordinary high water mark of all type S and F aquatic areas and the wetland edge of any category I, II, or III wetland with the exception of grazed wet meadows... avoid having manure accumulate in or within ten feet of type N or O waters."



### JOBSHEET Access Control

wner:	Lifetime of Practice: 10 years
The second of the Hole of the	
Purpose (check all that apply)  To prevent, restrict, or control access to an area	To maintain or improve the quantity and quality of natural resources
Minimize liability and human health and safety concerns	
Details of Use Exclusion	
Type of livestock: Cows or Goats	
Exclusion Months: 6 months (cow) 4 months (goat)	
Cow - Purchase 1 year oldcalves in spring and sell/suse in November through early March. Goats - Restrict goats to winter use pasture during ragrazing, restrict goats from winter use area to allow in	ainy season. Once pasture is dry and suitable for
Operation and Maintenance  Barriers will be periodically inspected and repairs pe	rformed as needed.
	4
Additional Specifications and Notes:	
Additional Specifications and Notes:  Exclude livestock from grass pastures in winter mon inches. Keep animals on sacrifice (confinement) pacto maintain long term productivity. If additional lives	ldocks during these times. Monitor pastures clos
Exclude livestock from grass pastures in winter mon inches. Keep animals on sacrifice (confinement) page	ldocks during these times. Monitor pastures clos
Exclude livestock from grass pastures in winter mon inches. Keep animals on sacrifice (confinement) page	docks during these times. Monitor pastures closs stock are introduced this plan should be revised.