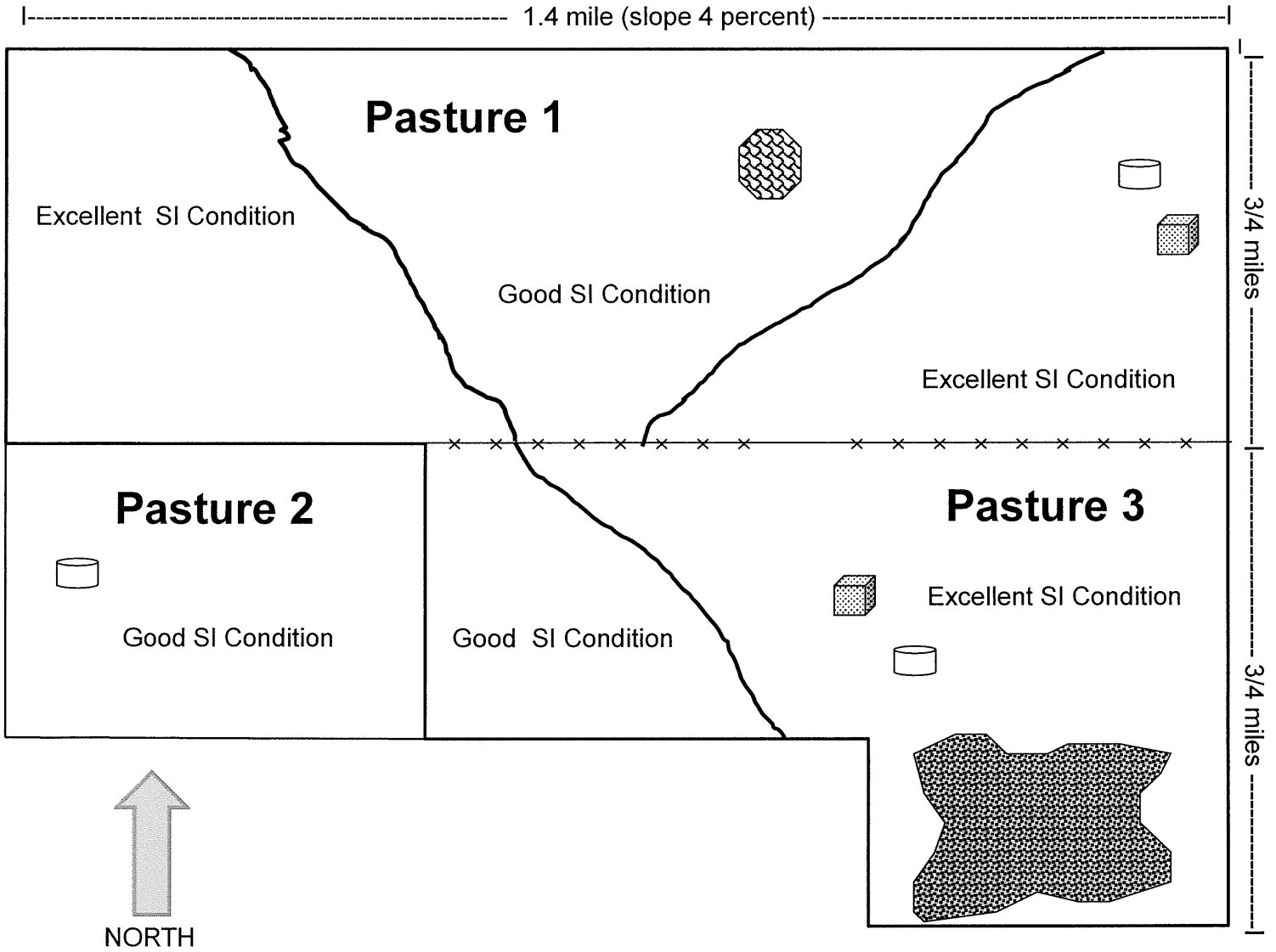




# Situation Map - 2021

# Senior / FFA



# Senior / FFA

**1,066 acres, 2 cross fences in Major Land Resource Area 54**

**Pasture 1: 640 acres**

240 acres of loamy in excellent condition (77%)

220 acres of loamy in good condition (56%)

180 acres of loamy in excellent condition (81%)

**Pasture 2: 100 acres**

100 acres loamy in good condition (61%)

**Pasture 3: 326 acres**

50 acres of loamy in good condition (68%)

276 acres of loamy in excellent condition (79%)

**Stocking rate:**

Pasture 1 grazed May 1 – August 1: 500 sheep

Pasture 2 grazed August 1 – September 1: 500 sheep

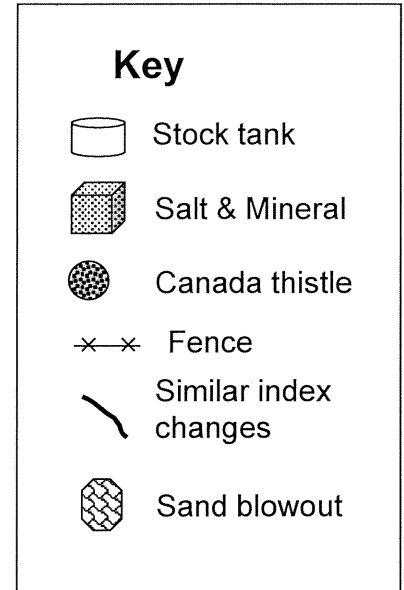
Pasture 3 grazed September 1 – November 1: 500 sheep

**Water Sources:**

- One stock tank in each pasture fed by shallow pipeline

**Concerns:**

- 35 acre Canada thistle in Pasture 3
- Sand blowout covers 12 acres in Pasture 1
- Salt and mineral 20-50 feet from stock tank each year
- Slope is 4 percent higher on west side of pasture compare to east side



# Senior/FFA

## ANIMAL UNIT MONTH (AUM) / ACRE

### Major Land Resource Area

	53	54	55A&B	56	58
<i>Clayey</i>	0.6	0.6	0.7	0.8	0.5
<i>Claypan</i>	0.5	0.4	0.6	0.6	0.4
<i>Limy Backslope</i>	0.5	0.5	0.6	0.7	0.4
<i>Loamy</i>	0.7	0.7	0.7	0.9	0.6
<i>Overflow</i>	1	0.9	1	1.2	0.8
<i>Saline Lowland</i>	1	0.7	1	1.1	0.7
<i>Sands</i>	0.7	0.7	0.7	0.8	0.5
<i>Sandy</i>	0.7	0.7	0.8	0.9	0.6
<i>Shallow</i>	0.6	0.4	0.6	-	0.4
<i>Thin Loamy</i>	0.5	0.5	0.6	0.7	0.4

### Animal Unit Equivalentents (AUE) by class of livestock.

ANIMAL	AUE
Cow/calf pairs	1.00
Yearling cattle	0.75
Dairy cows	1.30
Bulls	1.25
Mature sheep with or without lambs	0.20
Mature goats with or without kids	0.15
Deer	0.15
Mature horse	1.25
Mature buffalo with or without calves	1.00

# Senior/FFA

## Answers

### Carrying Capacity:

#### Pasture 1 (640 acres):

Loamy (excellent): 240 acres x 0.7 AUM/acre x 0.77 SI = 129.4 AUMs

Loamy (good): 220 acres x 0.7 AUM/acre x 0.56 SI = 86.2 AUMs

Loamy (excellent): 180 acres x 0.7 AUM/acre x 0.81 SI = 102.1 AUMs

**Total for Pasture 1: 317.7 AUMs**

#### Pasture 2 (100 acres):

Loamy (good): 100 acres x 0.7 AUM/acre x 0.61 SI = **42.7 AUMs**

#### Pasture 3 (326 acres):

Loamy (good): 50 acres x 0.7 AUM/acre x 0.68 SI = 23.8 AUMs

Loamy (excellent): 276 acres x 0.7 AUM/acre x 0.79 SI = 152.6 AUMs

**Total for Pasture 3: 176.4 AUMs**

**Total Carrying Capacity = 536.8 or 537 AUMs**

**Stocking Rate: 300 AUMs in Pasture 1, 100 AUMs in Pasture 2 and 200 AUMs in Pasture 3:**

**(Total Stocking Rate = 600 AUMs total)**

### Management Practices:

Decrease stocking rate

Move salt and mineral

Control blowout and gullies

Control noxious weeds

Change season of use

Defer part of grazing season (decrease stocking rate)

Begin a planned grazing system