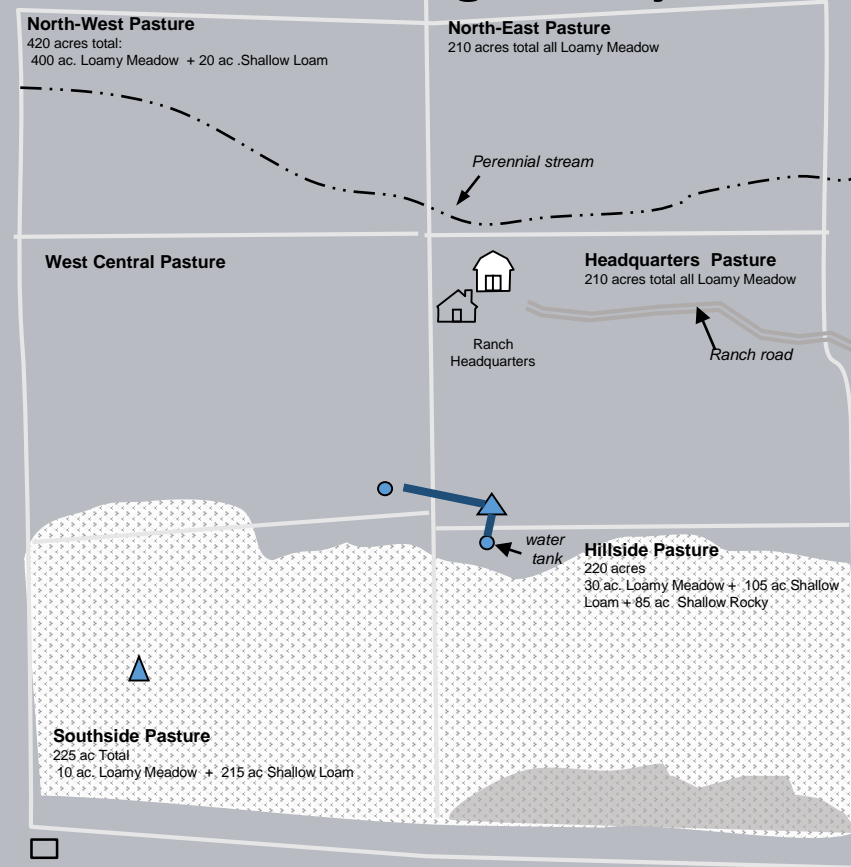


# Developing a Grazing System

## Which one is right for you?



**Loamy Meadow Site**



Mix of smooth brome and orchardgrass planted years ago.  
• Produces about 1,200 lbs./acre with a proper utilization level of 50%

**Shallow Loam Site**



Native bunchgrasses (50%), forbs (45%) and native shrubs (5%) including bitterbrush and other native shrubs.  
• Produces about 725 lbs./acre with a proper utilization level of 40%

**Shallow Rocky Site**

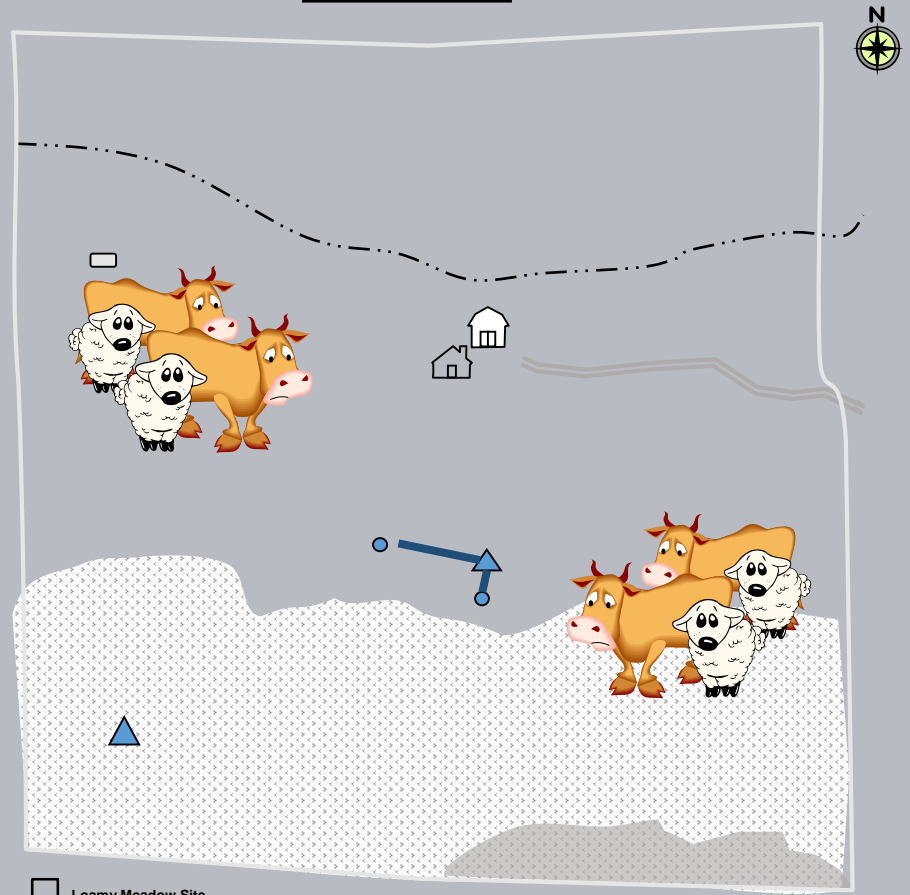
Bunchgrasses (50%), forbs (25%) and native shrubs (25%).  
• Produces about 550 lbs./acre of forage with a proper utilization level of 40%

Design a grazing system that will maximize rangeland health or animal performance

# Continuous or Season Long

Grazing a particular pasture or area the entire year, including the dormant season.

# Sonoma Ranch



- Loamy Meadow Site
- Shallow Loam Site
- Shallow Rocky Site

**Continuous or Season Long** – grazing a particular pasture or area the entire year, including the dormant season (see season-long grazing).

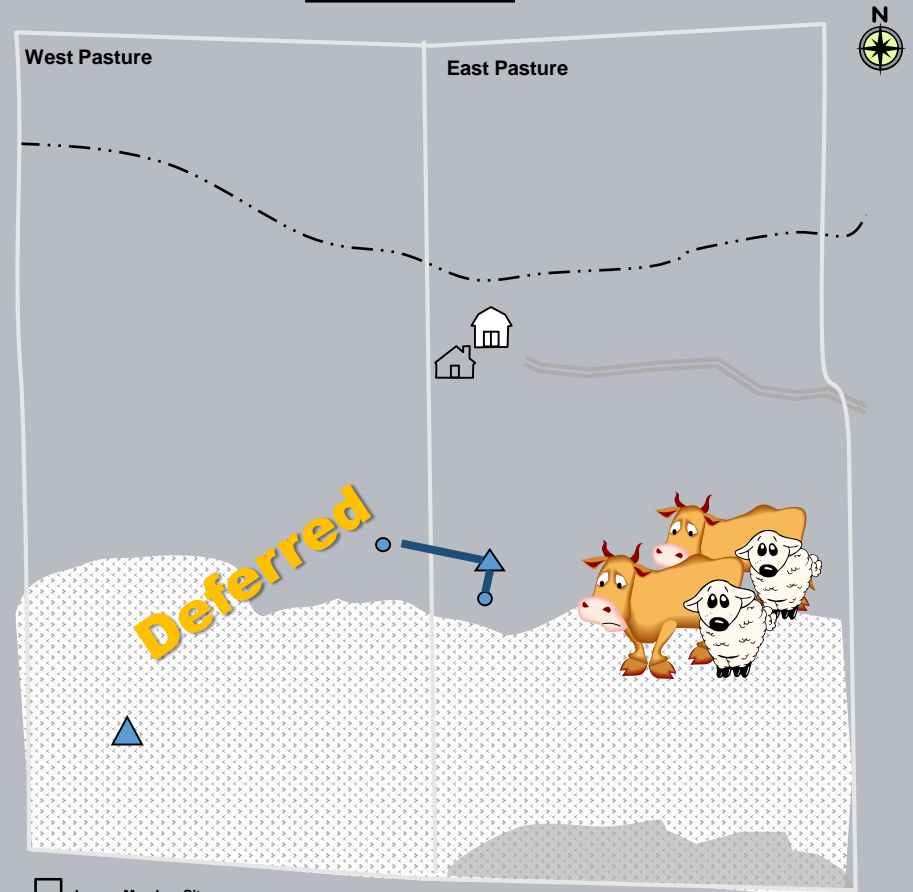
| Continuous - 1 Herd   1 Pasture |        |   |   |   |   |   |   |
|---------------------------------|--------|---|---|---|---|---|---|
| Months of the Year              |        |   |   |   |   |   |   |
| Every Year                      | A      | M | J | J | A | S | O |
|                                 | Grazed |   |   |   |   |   |   |

# Deferred Rotation

Grazing program with at least 2 pastures where a deferment from grazing is rotated among pastures over years.

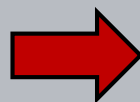
Deferment = a period of non-grazing until after seed-set

# Sonoma Ranch



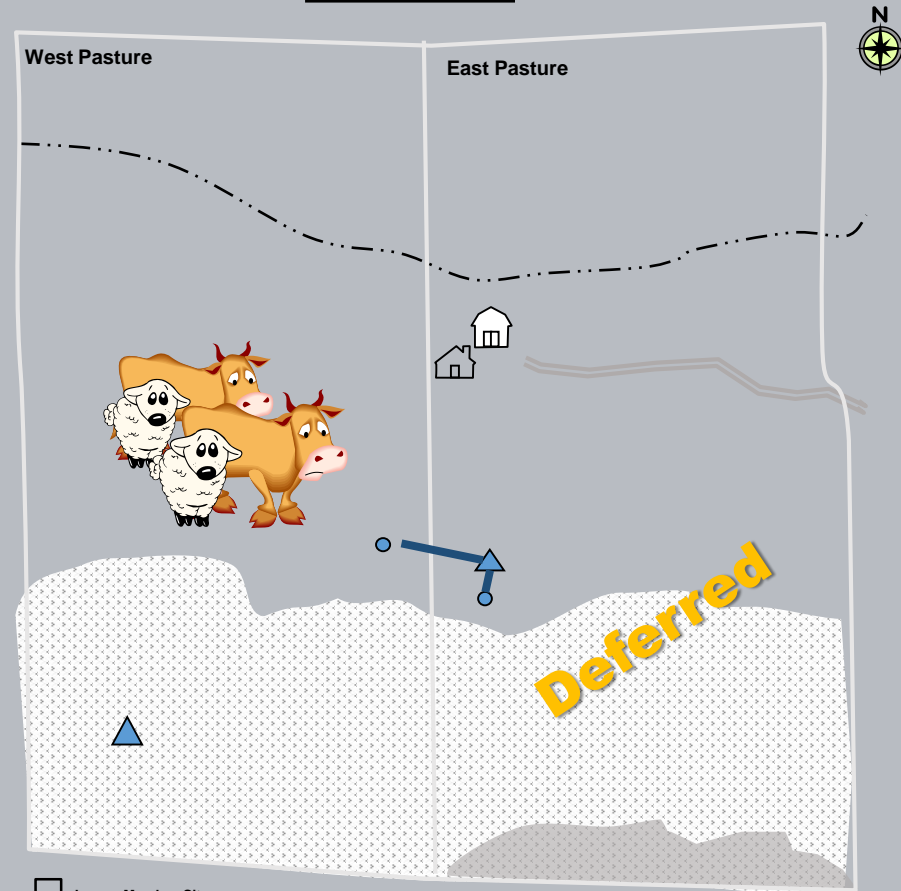
- Loamy Meadow Site
- Shallow Loam Site
- Shallow Rocky Site

**Deferred Rotation** – at least 2 pastures where a deferment from grazing is rotated among pastures over years.

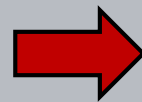


| Deferred Rotation - 1 Herd   2 Pasture |                    |   |   |   |        |   |   |
|--|--------------------|---|---|---|--------|---|---|
|  | Months of the Year |   |   |   |        |   |   |
| Year 1                                 | A                  | M | J | J | A      | S | O |
| East                                   | Grazed             |   |   |   |        |   |   |
| West                                   | Deferred           |   |   |   | Grazed |   |   |
| Year 2                                 | A                  | M | J | J | A      | S | O |
| East                                   | Deferred           |   |   |   | Grazed |   |   |
| West                                   | Grazed             |   |   |   |        |   |   |

# Sonoma Ranch

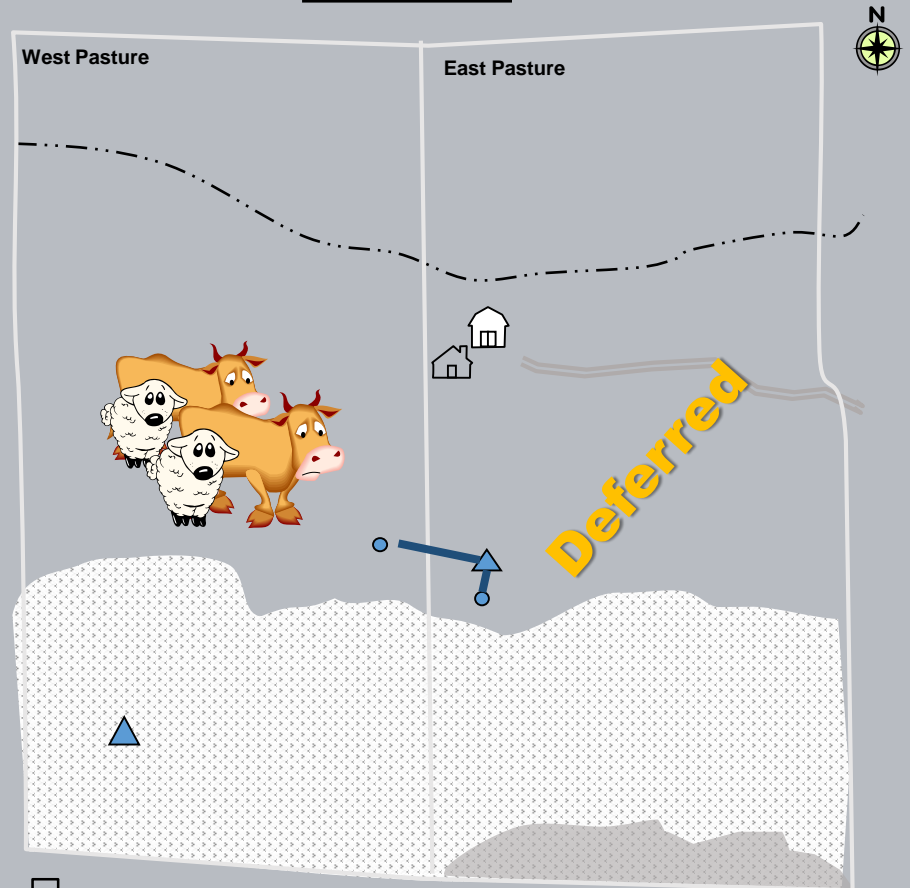


**Deferred Rotation** – at least 2 pastures where a deferment from grazing is rotated among pastures over years.



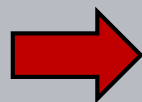
| Deferred Rotation - 1 Herd   2 Pasture |                    |   |   |   |        |   |   |
|--|--------------------|---|---|---|--------|---|---|
|  | Months of the Year |   |   |   |        |   |   |
|  | A                  | M | J | J | A      | S | O |
| Year 1                                 |                    |   |   |   |        |   |   |
| East                                   | Grazed             |   |   |   |        |   |   |
| West                                   | Deferred           |   |   |   | Grazed |   |   |
| Year 2                                 |                    |   |   |   |        |   |   |
| East                                   | Deferred           |   |   |   | Grazed |   |   |
| West                                   | Grazed             |   |   |   |        |   |   |

# Sonoma Ranch

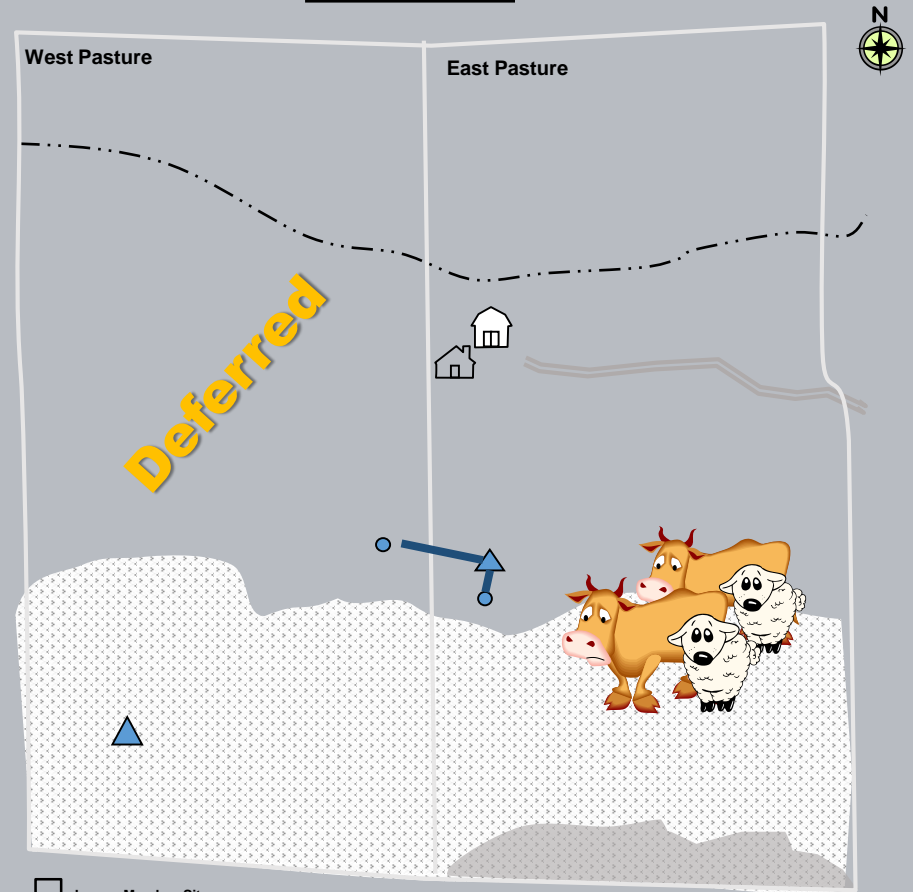


**Deferred Rotation** – at least 2 pastures where a deferment from grazing is rotated among pastures over years.

| Deferred Rotation - 1 Herd   2 Pasture |                    |   |   |   |        |   |   |
|--|--------------------|---|---|---|--------|---|---|
|  | Months of the Year |   |   |   |        |   |   |
|  | A                  | M | J | J | A      | S | O |
| Year 1                                 |                    |   |   |   |        |   |   |
| East                                   | Grazed             |   |   |   |        |   |   |
| West                                   | Deferred           |   |   |   | Grazed |   |   |
| Year 2                                 |                    |   |   |   |        |   |   |
| East                                   | Deferred           |   |   |   | Grazed |   |   |
| West                                   | Grazed             |   |   |   |        |   |   |

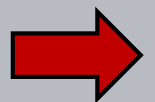


# Sonoma Ranch



- Loamy Meadow Site
- Shallow Loam Site
- Shallow Rocky Site

**Deferred Rotation** – at least 2 pastures where a deferment from grazing is rotated among pastures over years.

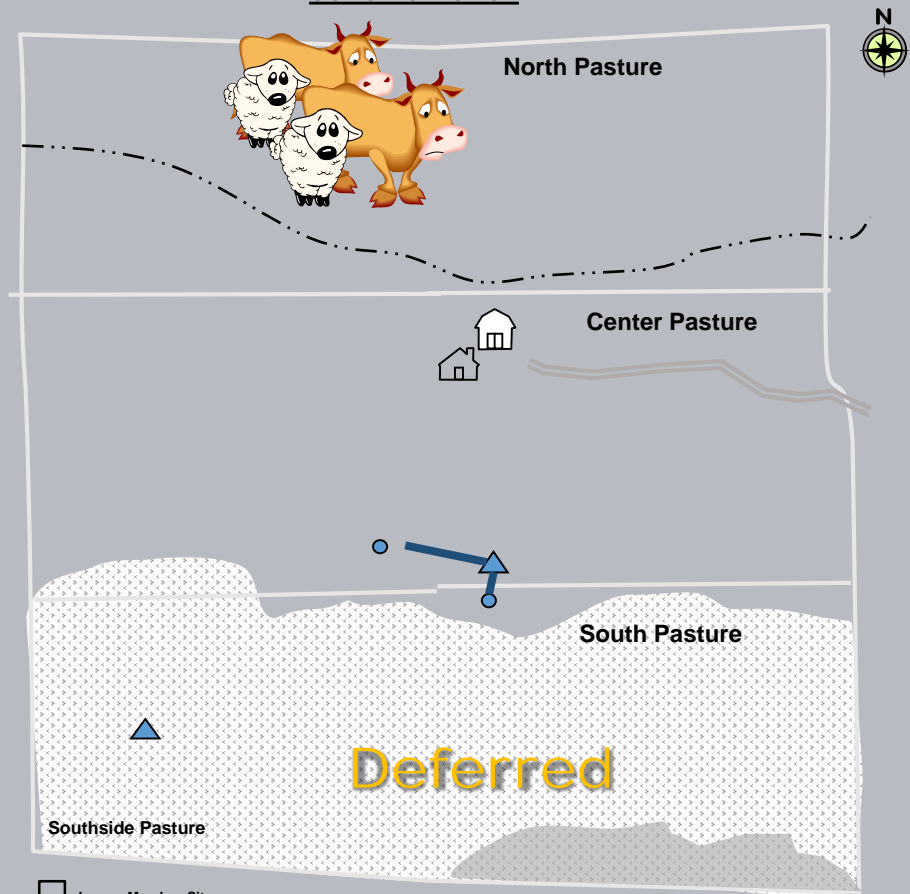


| Deferred Rotation - 1 Herd   2 Pasture |                    |   |   |        |   |   |   |
|--|--------------------|---|---|--------|---|---|---|
|  | Months of the Year |   |   |        |   |   |   |
|  | A                  | M | J | J      | A | S | O |
| Year 1                                 |                    |   |   |        |   |   |   |
| East                                   | Grazed             |   |   |        |   |   |   |
| West                                   | Deferred           |   |   | Grazed |   |   |   |
| Year 2                                 |                    |   |   |        |   |   |   |
| East                                   | Deferred           |   |   | Grazed |   |   |   |
| West                                   | Grazed             |   |   |        |   |   |   |

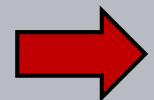
# Deferred Rotation

Example 2 = 3 pasture system

# Sonoma Ranch

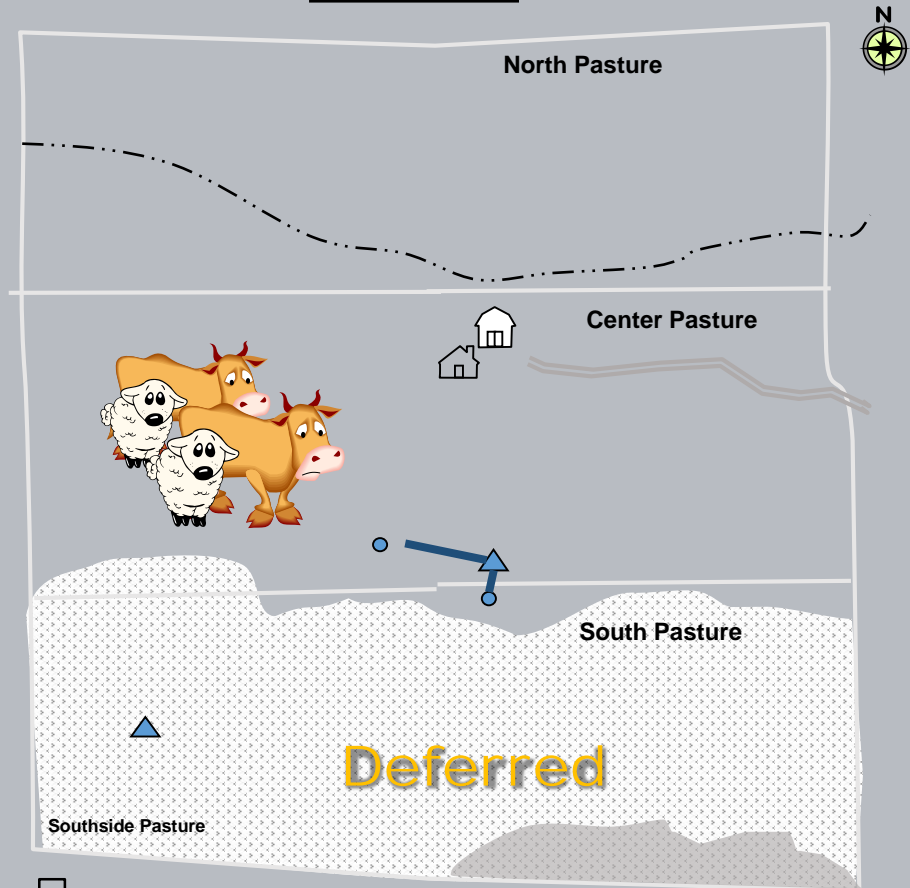


-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site



|        |        | Deferred Rotation - 1 Herd   3 Pasture |   |        |   |        |   |   |
|--------|--------|--|---|--------|---|--------|---|---|
|        |        | Months of the Year                     |   |        |   |        |   |   |
|        |        | A                                      | M | J      | J | A      | S | O |
| Year 1 | North  | Grazed                                 |   |        |   |        |   |   |
|        | Center |  |   | Grazed |   |        |   |   |
|        | South  | Deferred                               |   |        |   | Grazed |   |   |
| Year 2 | North  | Deferred                               |   |        |   | Grazed |   |   |
|        | Center | Grazed                                 |   |        |   |        |   |   |
|        | South  |  |   | Grazed |   |        |   |   |
| Year 3 | North  |  |   | Grazed |   |        |   |   |
|        | Center | Deferred                               |   |        |   | Grazed |   |   |
|        | South  | Grazed                                 |   |        |   |        |   |   |

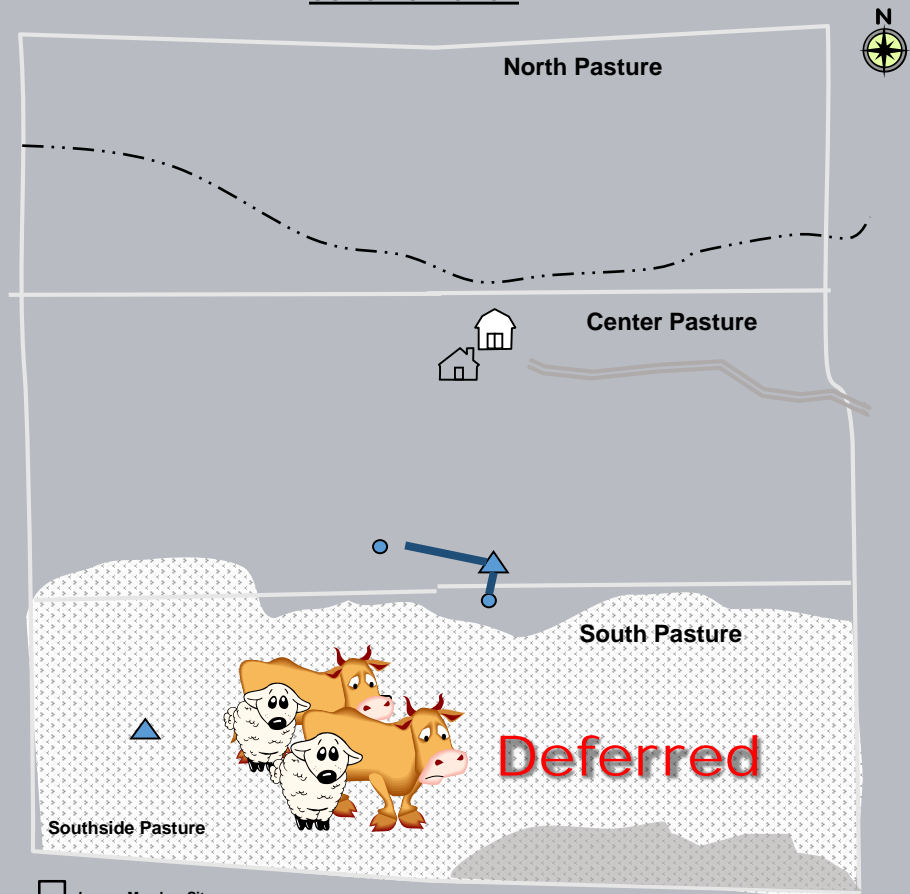
# Sonoma Ranch



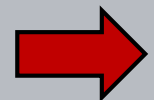
-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site

|        |        | Deferred Rotation - 1 Herd   3 Pasture |   |        |   |        |   |   |
|--------|--------|--|---|--------|---|--------|---|---|
|        |        | Months of the Year                     |   |        |   |        |   |   |
|        |        | A                                      | M | J      | J | A      | S | O |
| Year 1 | North  | Grazed                                 |   |        |   |        |   |   |
|        | Center |  |   | Grazed |   |        |   |   |
|        | South  | Deferred                               |   |        |   | Grazed |   |   |
| Year 2 | North  | Deferred                               |   |        |   | Grazed |   |   |
|        | Center | Grazed                                 |   |        |   |        |   |   |
|        | South  |  |   | Grazed |   |        |   |   |
| Year 3 | North  |  |   | Grazed |   |        |   |   |
|        | Center | Deferred                               |   |        |   | Grazed |   |   |
|        | South  | Grazed                                 |   |        |   |        |   |   |

# Sonoma Ranch

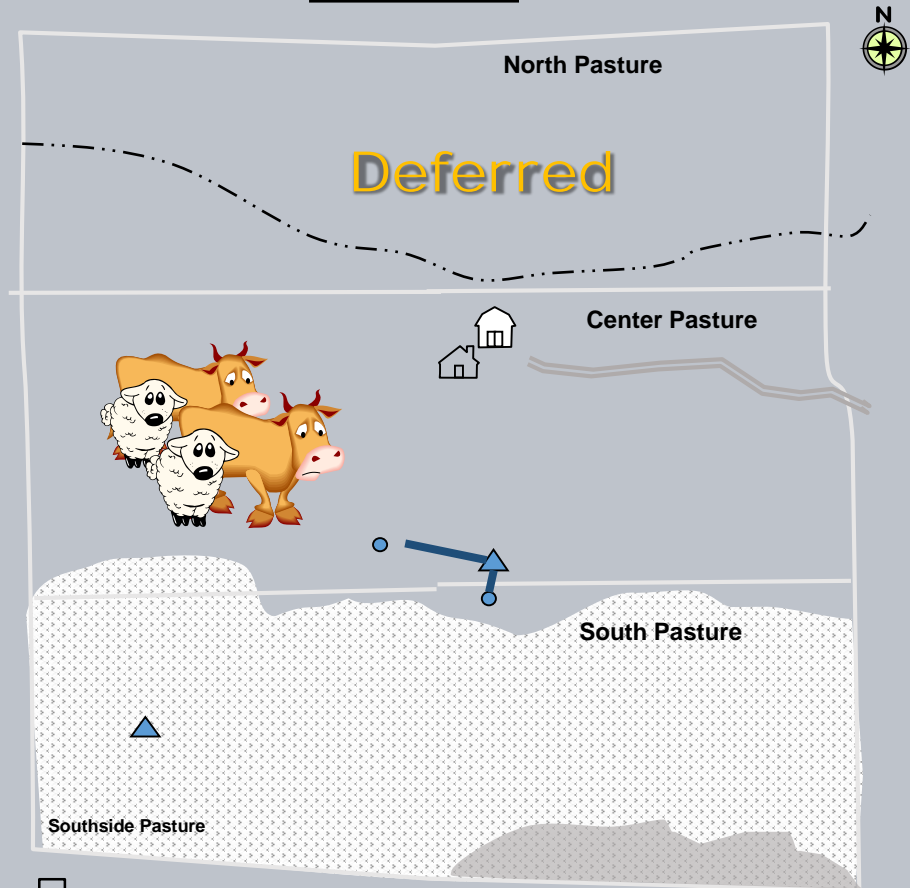



-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site



|        |        | Deferred Rotation - 1 Herd   3 Pasture |   |        |   |        |   |   |
|--------|--------|--|---|--------|---|--------|---|---|
|        |        | Months of the Year                     |   |        |   |        |   |   |
|        |        | A                                      | M | J      | J | A      | S | O |
| Year 1 | North  | Grazed                                 |   |        |   |        |   |   |
|        | Center |  |   | Grazed |   |        |   |   |
|        | South  | Deferred                               |   |        |   | Grazed |   |   |
| Year 2 | North  | Deferred                               |   |        |   | Grazed |   |   |
|        | Center | Grazed                                 |   |        |   |        |   |   |
|        | South  |  |   | Grazed |   |        |   |   |
| Year 3 | North  |  |   | Grazed |   |        |   |   |
|        | Center | Deferred                               |   |        |   | Grazed |   |   |
|        | South  | Grazed                                 |   |        |   |        |   |   |

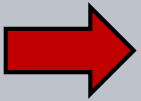
# Sonoma Ranch



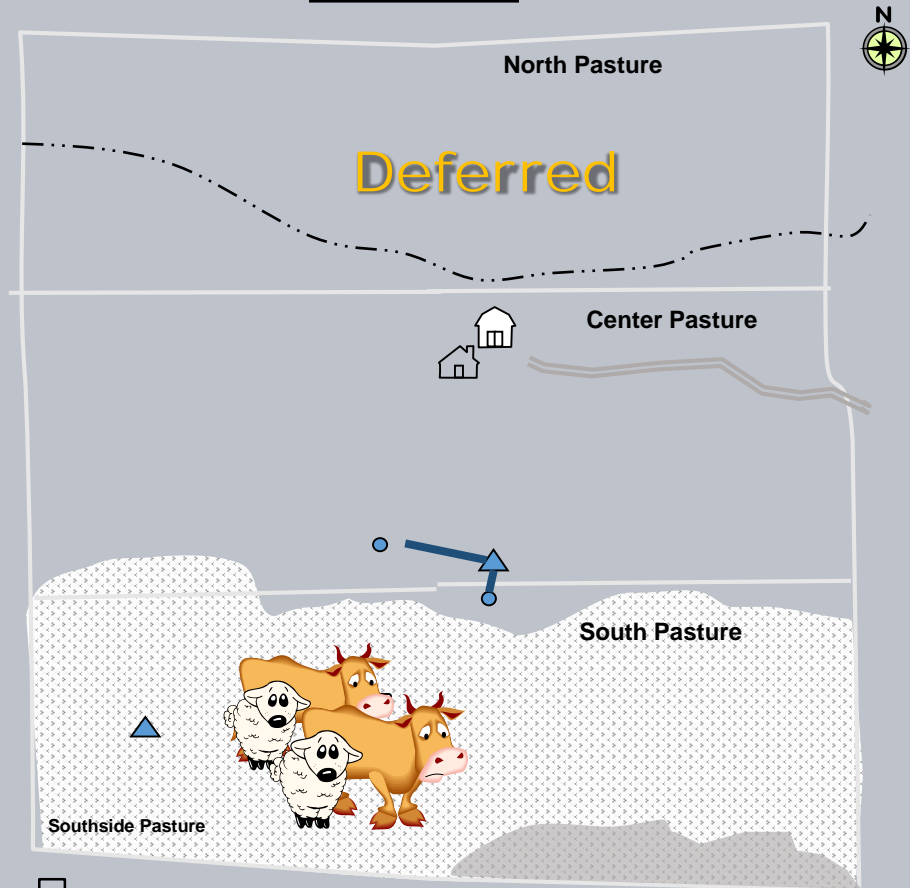
-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site




## Deferred Rotation - 1 Herd | 3 Pasture

| Year   | Months of the Year |   |        |   |   |        |   |
|--------|--------------------|---|--------|---|---|--------|---|
|        | A                  | M | J      | J | A | S      | O |
| Year 1 |                    |   |        |   |   |        |   |
| North  | Grazed             |   |        |   |   |        |   |
| Center |                    |   | Grazed |   |   |        |   |
| South  | Deferred           |   |        |   |   | Grazed |   |
| Year 2 |                    |   |        |   |   |        |   |
| North  | Deferred           |   |        |   |   | Grazed |   |
| Center | Grazed             |   |        |   |   |        |   |
| South  |                    |   | Grazed |   |   |        |   |
| Year 3 |                    |   |        |   |   |        |   |
| North  |                    |   | Grazed |   |   |        |   |
| Center | Deferred           |   |        |   |   | Grazed |   |
| South  | Grazed             |   |        |   |   |        |   |



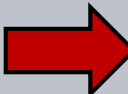
# Sonoma Ranch



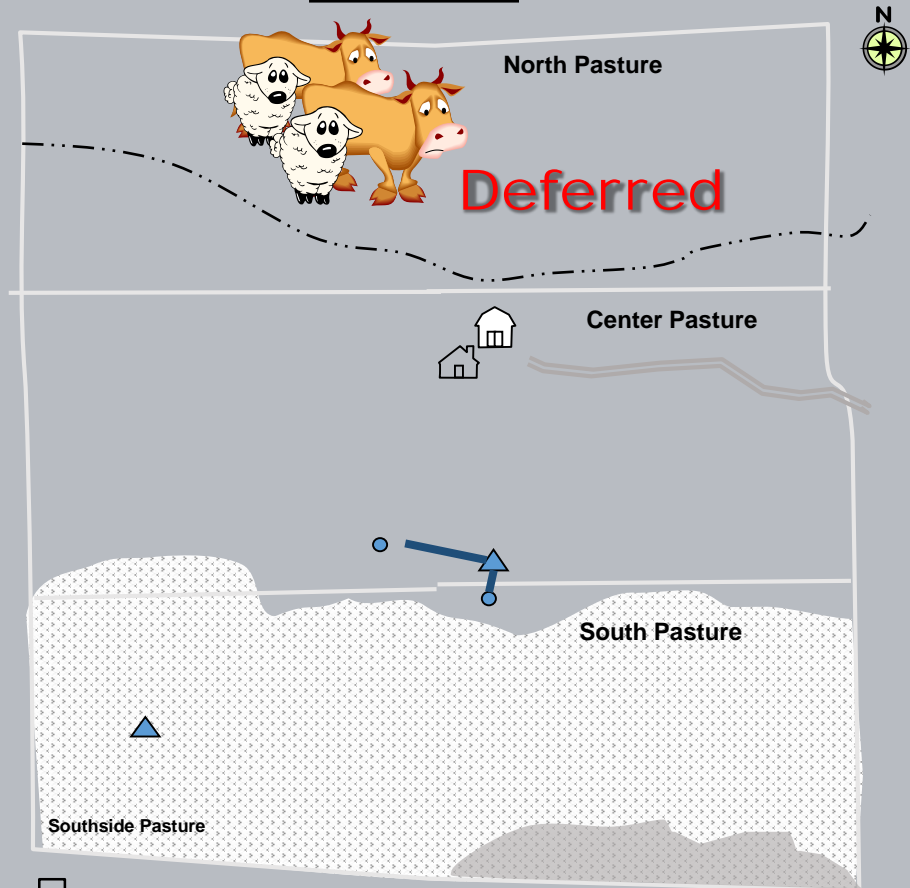
-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site

## Deferred Rotation - 1 Herd | 3 Pasture

| Year   | Months of the Year |   |        |   |   |        |   |
|--------|--------------------|---|--------|---|---|--------|---|
|        | A                  | M | J      | J | A | S      | O |
| Year 1 |                    |   |        |   |   |        |   |
| North  | Grazed             |   |        |   |   |        |   |
| Center |                    |   | Grazed |   |   |        |   |
| South  | Deferred           |   |        |   |   | Grazed |   |
| Year 2 |                    |   |        |   |   |        |   |
| North  | Deferred           |   |        |   |   | Grazed |   |
| Center | Grazed             |   |        |   |   |        |   |
| South  |                    |   | Grazed |   |   |        |   |
| Year 3 |                    |   |        |   |   |        |   |
| North  |                    |   | Grazed |   |   |        |   |
| Center | Deferred           |   |        |   |   | Grazed |   |
| South  | Grazed             |   |        |   |   |        |   |



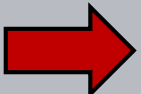
# Sonoma Ranch



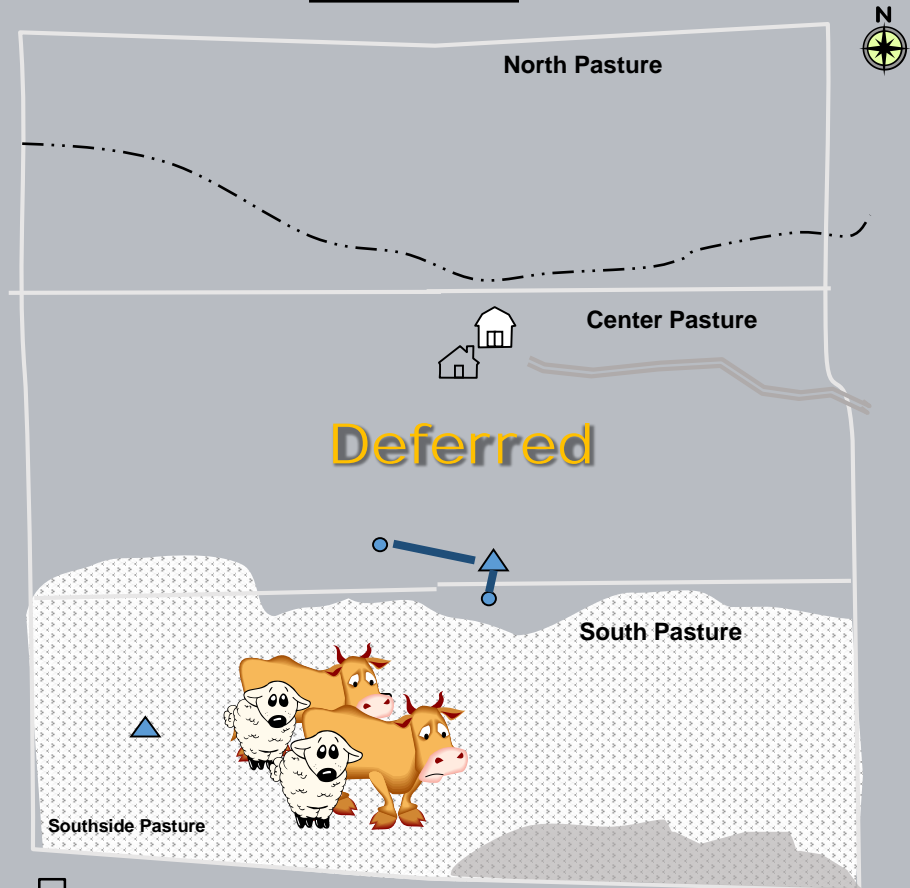
-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site

### Deferred Rotation - 1 Herd | 3 Pasture

|        | Months of the Year |   |        |   |   |        |   |
|--------|--------------------|---|--------|---|---|--------|---|
|        | A                  | M | J      | J | A | S      | O |
| Year 1 |                    |   |        |   |   |        |   |
| North  | Grazed             |   |        |   |   |        |   |
| Center |                    |   | Grazed |   |   |        |   |
| South  | Deferred           |   |        |   |   | Grazed |   |
| Year 2 |                    |   |        |   |   |        |   |
| North  | Deferred           |   |        |   |   | Grazed |   |
| Center | Grazed             |   |        |   |   |        |   |
| South  |                    |   | Grazed |   |   |        |   |
| Year 3 |                    |   |        |   |   |        |   |
| North  |                    |   | Grazed |   |   |        |   |
| Center | Deferred           |   |        |   |   | Grazed |   |
| South  | Grazed             |   |        |   |   |        |   |

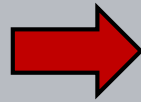


# Sonoma Ranch

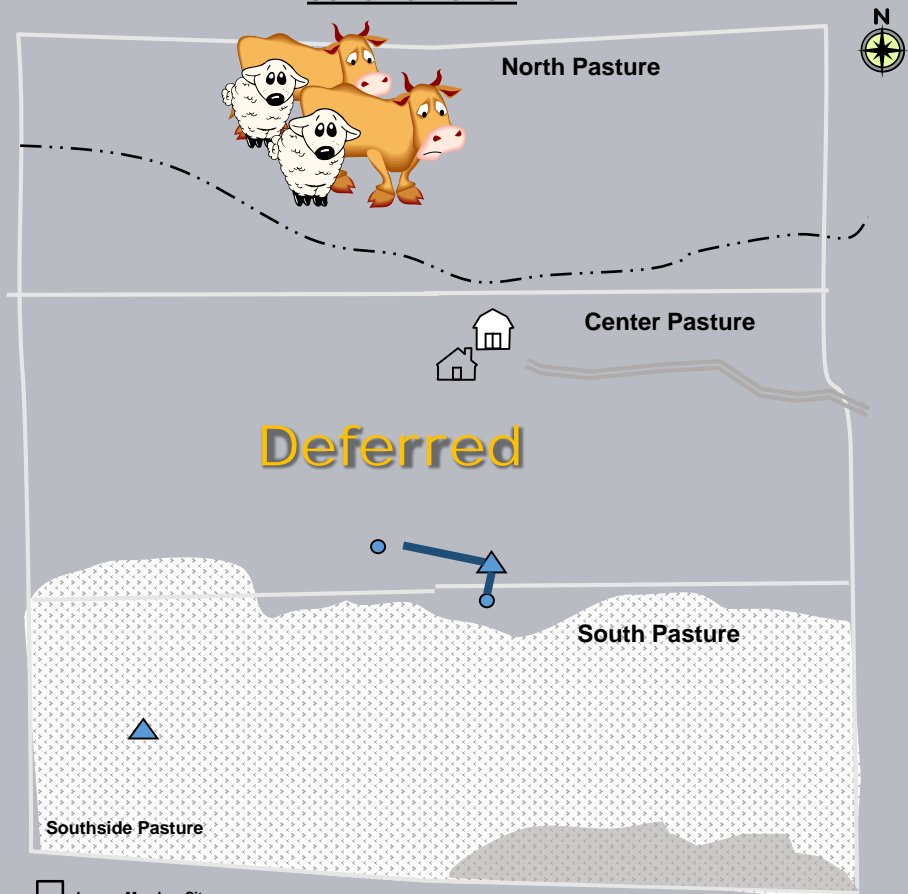


-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site

|        |        | Deferred Rotation - 1 Herd   3 Pasture |   |        |   |   |        |   |
|--------|--------|--|---|--------|---|---|--------|---|
|        |        | Months of the Year                     |   |        |   |   |        |   |
|        |        | A                                      | M | J      | J | A | S      | O |
| Year 1 | North  | Grazed                                 |   |        |   |   |        |   |
|        | Center |  |   | Grazed |   |   |        |   |
|        | South  | Deferred                               |   |        |   |   | Grazed |   |
| Year 2 | North  | Deferred                               |   |        |   |   | Grazed |   |
|        | Center | Grazed                                 |   |        |   |   |        |   |
|        | South  |  |   | Grazed |   |   |        |   |
| Year 3 | North  |  |   | Grazed |   |   |        |   |
|        | Center | Deferred                               |   |        |   |   | Grazed |   |
|        | South  | Grazed                                 |   |        |   |   |        |   |

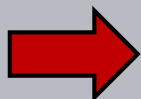


# Sonoma Ranch

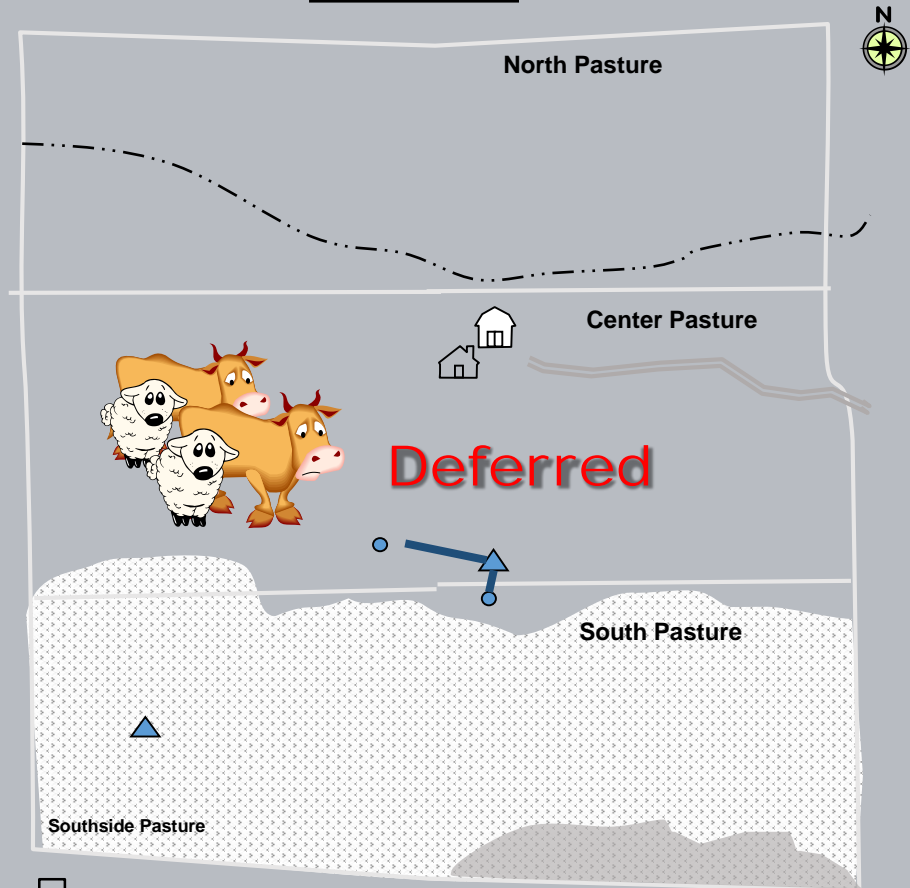


-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site

|        |        | Months of the Year |   |        |   |        |   |   |
|--------|--------|--------------------|---|--------|---|--------|---|---|
|        |        | A                  | M | J      | J | A      | S | O |
| Year 1 | North  | Grazed             |   |        |   |        |   |   |
|        | Center |                    |   | Grazed |   |        |   |   |
|        | South  | Deferred           |   |        |   | Grazed |   |   |
| Year 2 | North  | Deferred           |   |        |   | Grazed |   |   |
|        | Center | Grazed             |   |        |   |        |   |   |
|        | South  |                    |   | Grazed |   |        |   |   |
| Year 3 | North  |                    |   | Grazed |   |        |   |   |
|        | Center | Deferred           |   |        |   | Grazed |   |   |
|        | South  | Grazed             |   |        |   |        |   |   |

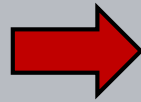


# Sonoma Ranch



-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site

|        |        | Months of the Year |   |        |   |        |   |   |
|--------|--------|--------------------|---|--------|---|--------|---|---|
|        |        | A                  | M | J      | J | A      | S | O |
| Year 1 | North  | Grazed             |   |        |   |        |   |   |
|        | Center |                    |   | Grazed |   |        |   |   |
|        | South  | Deferred           |   |        |   | Grazed |   |   |
| Year 2 | North  | Deferred           |   |        |   | Grazed |   |   |
|        | Center | Grazed             |   |        |   |        |   |   |
|        | South  |                    |   | Grazed |   |        |   |   |
| Year 3 | North  |                    |   | Grazed |   |        |   |   |
|        | Center | Deferred           |   |        |   | Grazed |   |   |
|        | South  | Grazed             |   |        |   |        |   |   |

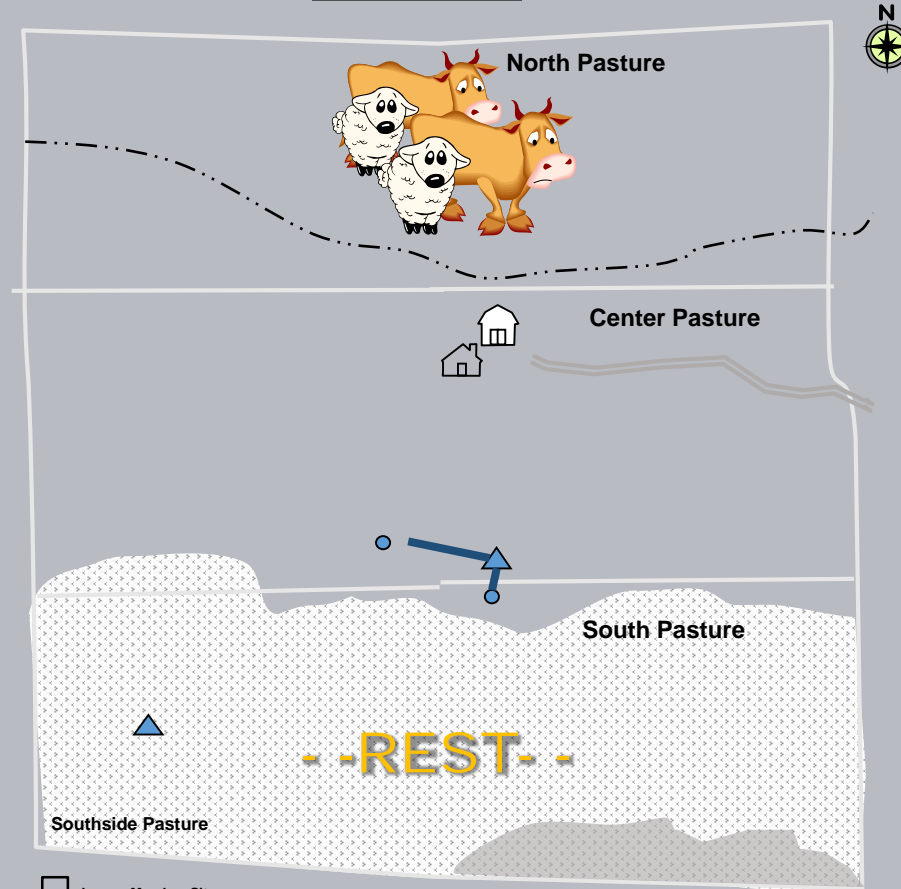


# Rest Rotation

Grazing program with at least 3 pastures where 1 pasture in the system is not grazed at all for one year.

Rest = a period of non-grazing for a whole growing season

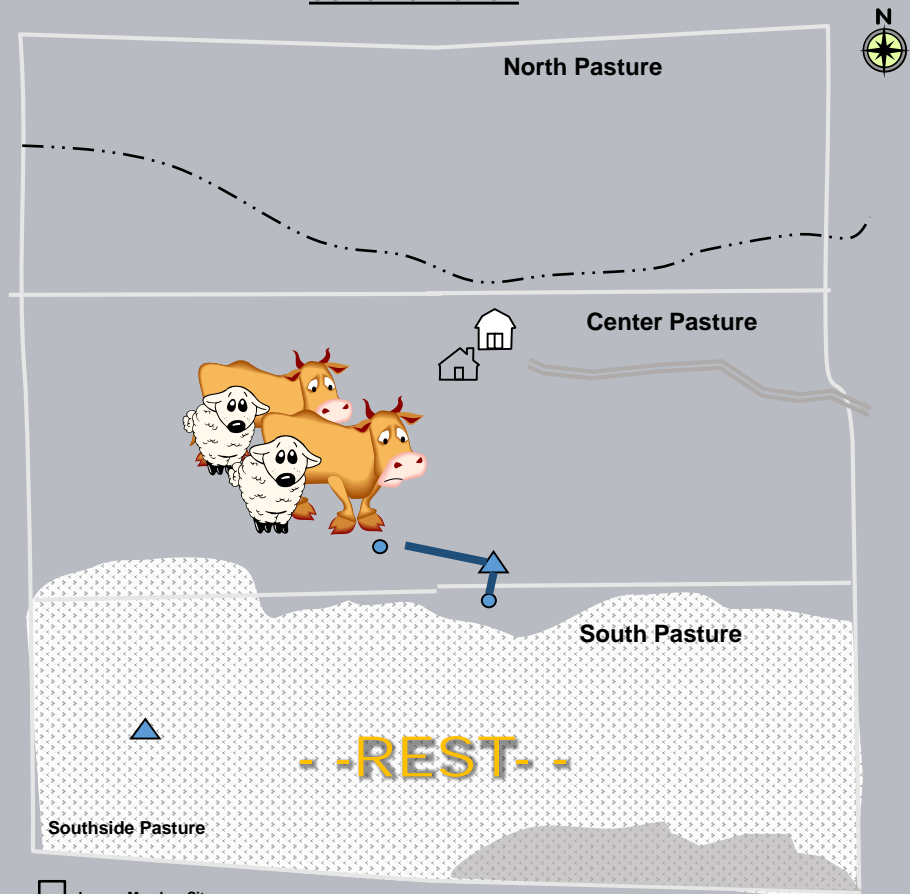
# Sonoma Ranch



**Rest Rotation** – at least 3 pastures where a full season of rest from grazing is rotated among pastures over years.

| Rest Rotation - 1 Herd   3 Pasture |                    |   |   |   |        |        |   |   |
|------------------------------------|--------------------|---|---|---|--------|--------|---|---|
|                                    | Months of the Year |   |   |   |        |        |   |   |
| Year 1                             | A                  | M | J | J | A      | S      | O | N |
| North                              | Grazed             |   |   |   |        |        |   |   |
| Center                             |                    |   |   |   | Grazed |        |   |   |
| South                              | Rest               |   |   |   |        |        |   |   |
| Year 2                             |                    |   |   |   |        |        |   |   |
| North                              |                    |   |   |   | Grazed |        |   |   |
| Center                             | Rest               |   |   |   |        |        |   |   |
| South                              | Grazed             |   |   |   |        |        |   |   |
| Year 3                             |                    |   |   |   |        |        |   |   |
| Center                             | Rest               |   |   |   |        |        |   |   |
| South                              | Grazed             |   |   |   |        | Grazed |   |   |

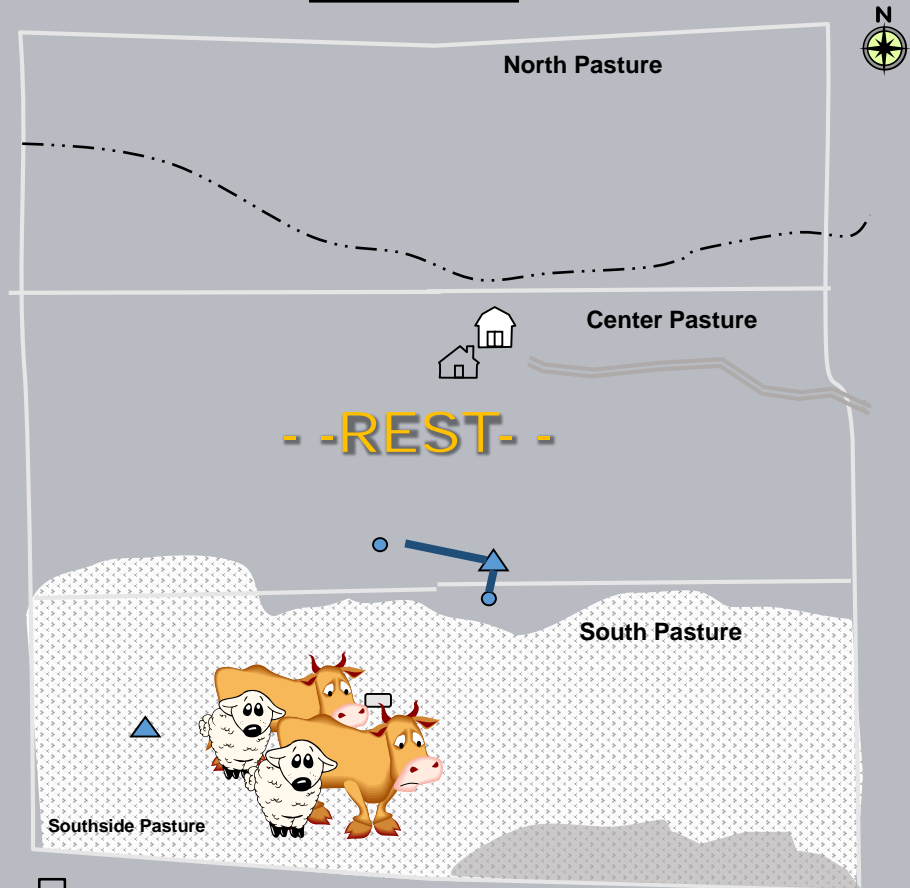
# Sonoma Ranch



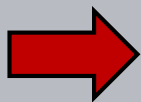
**Rest Rotation** – at least 3 pastures where a full season of rest from grazing is rotated among pastures over years.

| Rest Rotation - 1 Herd   3 Pasture |        |        |   |   |        |        |        |   |  |
|------------------------------------|--------|--------|---|---|--------|--------|--------|---|--|
| Months of the Year                 |        |        |   |   |        |        |        |   |  |
| Year                               | A      | M      | J | J | A      | S      | O      | N |  |
| Year 1                             |        |        |   |   |        |        |        |   |  |
| North                              | Grazed |        |   |   |        |        |        |   |  |
| Center                             |        |        |   |   | Grazed |        |        |   |  |
| South                              | Rest   |        |   |   |        |        |        |   |  |
| Year 2                             |        |        |   |   |        |        |        |   |  |
| North                              |        |        |   |   |        | Grazed |        |   |  |
| Center                             | Rest   |        |   |   |        |        |        |   |  |
| South                              | Grazed |        |   |   |        |        |        |   |  |
| Year 3                             |        |        |   |   |        |        |        |   |  |
| Center                             | Rest   |        |   |   |        |        |        |   |  |
| South                              |        | Grazed |   |   |        |        | Grazed |   |  |

# Sonoma Ranch

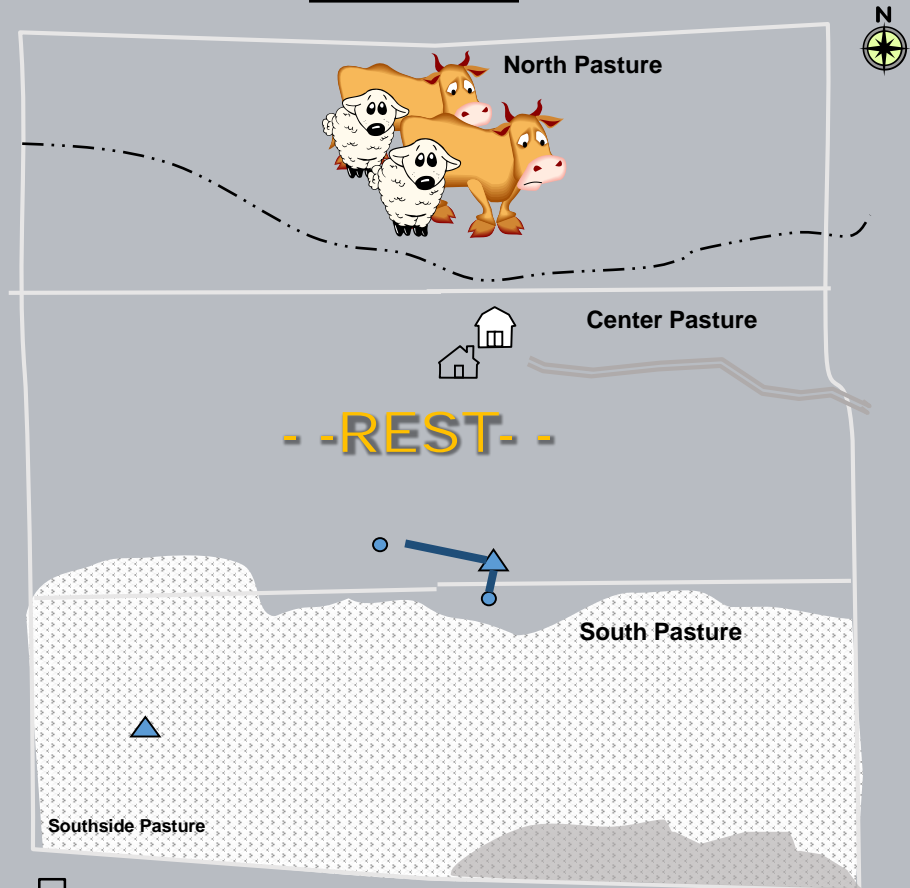


-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site



| Rest Rotation - 1 Herd   3 Pasture |                    |   |   |   |        |        |   |   |
|------------------------------------|--------------------|---|---|---|--------|--------|---|---|
|                                    | Months of the Year |   |   |   |        |        |   |   |
| Year 1                             | A                  | M | J | J | A      | S      | O | N |
| North                              | Grazed             |   |   |   |        |        |   |   |
| Center                             |                    |   |   |   | Grazed |        |   |   |
| South                              | Rest               |   |   |   |        |        |   |   |
| Year 2                             |                    |   |   |   |        |        |   |   |
| North                              |                    |   |   |   | Grazed |        |   |   |
| Center                             | Rest               |   |   |   |        |        |   |   |
| South                              | Grazed             |   |   |   |        |        |   |   |
| Year 3                             |                    |   |   |   |        |        |   |   |
| Center                             | Grazed             |   |   |   |        |        |   |   |
| South                              | Rest               |   |   |   |        | Grazed |   |   |

# Sonoma Ranch

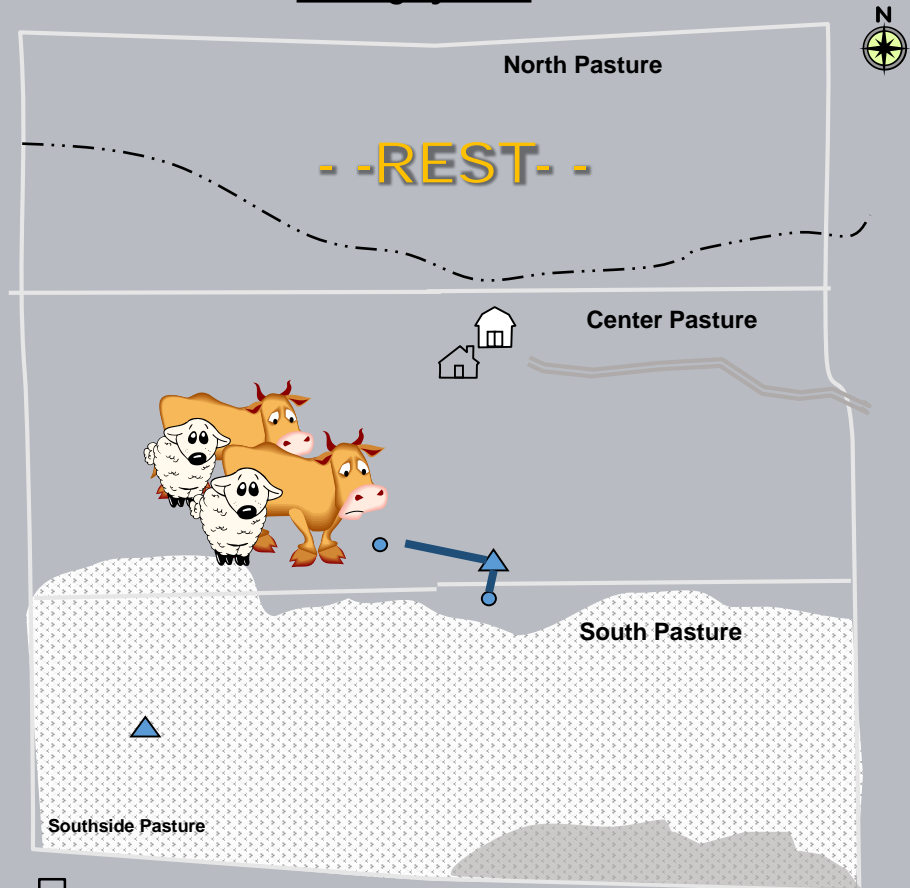


-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site

## Rest Rotation - 1 Herd | 3 Pasture

|        |         | Months of the Year |   |   |   |   |   |        |   |  |  |  |  |
|--------|---------|--------------------|---|---|---|---|---|--------|---|--|--|--|--|
| Year   | Pasture | A                  | M | J | J | A | S | O      | N |  |  |  |  |
| Year 1 | North   | Grazed             |   |   |   |   |   |        |   |  |  |  |  |
|        | Center  |                    |   |   |   |   |   | Grazed |   |  |  |  |  |
|        | South   | Rest               |   |   |   |   |   |        |   |  |  |  |  |
| Year 2 | North   |                    |   |   |   |   |   | Grazed |   |  |  |  |  |
|        | Center  | Rest               |   |   |   |   |   |        |   |  |  |  |  |
|        | South   | Grazed             |   |   |   |   |   |        |   |  |  |  |  |
| Year 3 | Center  | Rest               |   |   |   |   |   |        |   |  |  |  |  |
|        | North   | Grazed             |   |   |   |   |   |        |   |  |  |  |  |
|        | South   |                    |   |   |   |   |   | Grazed |   |  |  |  |  |

# Grazing Systems



-  Loamy Meadow Site
-  Shallow Loam Site
-  Shallow Rocky Site

**Rest Rotation - 1 Herd | 3 Pasture**

|        |        | Months of the Year |   |   |   |        |   |   |   |
|--------|--------|--------------------|---|---|---|--------|---|---|---|
| Year   |        | A                  | M | J | J | A      | S | O | N |
| Year 1 | North  | Grazed             |   |   |   |        |   |   |   |
|        | Center |                    |   |   |   | Grazed |   |   |   |
|        | South  | Rest               |   |   |   |        |   |   |   |
| Year 2 | North  |                    |   |   |   | Grazed |   |   |   |
|        | Center | Rest               |   |   |   |        |   |   |   |
|        | South  | Grazed             |   |   |   |        |   |   |   |
| Year 3 | Center | Rest               |   |   |   |        |   |   |   |
|        | North  | Grazed             |   |   |   |        |   |   |   |
|        | South  |                    |   |   |   | Grazed |   |   |   |

