

### Ranch:

**hist\_id**, ranch\_id, year, preg, head, comp, pasture\_id, breed\_id, salt, mineral, supp\_id, AI, vac\_id, date\_rider, nonlethal, wolf\_deps, griz\_deps, other\_deps, wolf\_injuries, griz\_injuries, other\_injuries, illness, illness\_type, sig\_id, return\_rate, weights\_turnout, weights/turnin, rider\_freq, rep\_heifers, rider\_direct, rider\_indirect, rider\_trust, rider\_monitoring, state, turnout, turnin, cameras, interviews, cortisol, VHF, GPS, ridersheets, preg\_rate, salt, mineral, supp, AI, vax, sig

### Cameras:

**deploy\_id**, ranch\_id, camera\_serial, station\_id, camera\_id, date\_deployed, person\_deployed, date\_pulled, pasture\_id, person\_removed, lat, long, dist\_target, height, width, cover, direction, habitat, lock\_deployed, S/B\_date, date\_checked, person\_checked, total\_pics\_use, total\_pics\_deleted, date\_dead, date\_full

### Cortisol/BCS:

**cort\_id**, date, ranch\_id, person\_deployed, cow\_id, BCS\_s\_22, BSC\_f\_22, BSC\_s\_23, BSC\_f\_23, BCS\_s\_24, BSC\_f\_24, tag\_color, tag\_location, person\_removed, cort\_s\_22, thyroid\_s\_22, cort\_f\_22, thyroid\_f\_22, cort\_s\_23, thyroid\_s\_23, cort\_f\_23, thyroid\_f\_23, cort\_s\_24, thyroid\_s\_24, cort\_f\_24, thyroid\_f\_24

All connected by “ranch\_id”  
Primary Key bolded, Foreign keys in colored lines

### Riders:

rider\_id, ranch\_id, start, age, move, doc, type, freq\_ride, travel\_id, experience, ranch\_experience, LSH

### VHF:

**unit\_id**, freq, year, date\_deployed, cow\_id, person\_deployed, date\_removed, person\_removed, ranch\_id, type, missing

### Pastures:

pasture\_id, ranch\_id, acres, stocking, 2022\_head, 2023\_head, 2024\_head, 2022\_comp, 2023\_comp, 2024\_comp, 2022\_date\_out, 2023\_date\_out, 2024\_date\_out, 2022\_date\_in, 2023\_date\_in, 2024\_date\_in, 2022\_NDVI, 2023\_NDVI, 2024\_NDVI, 2022\_NPP, 2023\_NPP, 2024\_NPP

### Rides:

ranch\_id, **ride\_id**, rider\_id, date\_in, date\_out, time\_in, time\_out, time\_ride\_start, time\_ride\_end, pasture\_id, travel\_id, herds, VHF, GPS, weather\_id, ordinary\_id, pred\_response\_id, management\_id, dogs\_id, nonlethal\_id, unit\_id, gps\_id, pred\_lat, pred\_long, type\_id, species\_id, pred\_num, pred\_kill, time\_to, num\_calves, num\_cows, num\_bulls, num\_other, stress\_id, vigilant\_id

### Predator\_Agency:

**pred\_id**, date, ranch\_id, weather\_id, temp, observer\_id, time, lat, long, type\_id, species\_id, pred\_num, num\_cattle

### Photos:

**photo\_id**, observer\_id, ranch\_id, camera\_id, date, lat, long, weather\_id, temp, time, species\_id, num\_calves, num\_cows, num\_bulls, pred\_num, num\_other, num\_cattle, event, event\_start, event\_end, eat\_up\_bulls, eat\_up\_cows, eat\_up\_calves, eat\_down\_bulls, eat\_down\_cows, eat\_down\_calves, stand\_up\_bulls, stand\_up\_cows, stand\_up\_calves, stand\_down\_bulls, stand\_down\_cows, stand\_down\_calves, walk\_up\_bulls, walk\_up\_cows, walk\_up\_calves, walk\_down\_bulls, walk\_down\_cows, walk\_down\_calves, lying\_bulls, lying\_cows, lying\_calves, running\_bulls, running\_cows, running\_calves, other\_bulls, other\_cows, other\_calves, dom\_behav

### GPS:

**GPS\_id**, date, ranch\_id, rider\_id

### Agency\_conflict:

**conflict\_id**, date, ranch\_id, observer\_id, time, lat, long, type\_id, species\_id, pred\_num, num\_cattle