

All connected by “ranch_id”
Primary Key bolded

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:

ranch_id, camera_serial, station_id, **camera_id**, date_deployed, person_deployed, date_pulled, pasture_id, person_pulled, 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, BCS_f_22, BCS_s_23, BCS_f_23, BCS_s_24, BCS_f_24, tag_color, tag_location, 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

GPS:

GPS_id, date, ranch_id, rider_id

VHF:

unit_id, freq, year, date_deployed, cow_id, person_deployed, date_removed, person_removed, ranch_id, type, missing

Riders:

rider_id, ranch_id, start, age, move, doc, type, freq, travel_id, experience, ranch_experience, LSH

Predator_Agency:

pred_id, date, ranch_id, camera_id, weather_id, temp, observer_id, time, lat, long, type_id, species_id, num, num_cattle

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_id, pred_lat, pred_long, type_id, species_id, pred_num, pred_kill, time_to, num_calves, num_cows, num_bulls, num_other, event_start, event_end, stress_id, vigilant_id

Photos:

photo_id, ranch_id, **camera_id**, date, lat, long, species_id, cattle_id, num, weather_id, temp, time, num_calves, num_cows, num_bulls, num_other, event_start, event_end, stress_id, vigilant_id

Agency_conflict:

conflict_id, date, ranch_id, observer_id, time, lat, long, type_id, species_id, num, num_cattle

Ranch:

ranch_id, producer_id, state, start_date, end_date, cameras, interviews, cortisol, VHF, rider_sheets, rider_gps, head, preg_2022, preg_2023, preg_2024, breed_id, salt, mineral, supp_id, AI, vac_id, date_rider, 2022_nonlethal, 2023_nonlethal, 2024_nonlethal, 2022_sig_id, 2023_sig_id, 2024_sig_id

Cameras:

ranch_id, camera_serial, station_id, **camera_id**, date_deployed, person_deployed, date_pulled, pasture_id, person_pulled, 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

GPS:

date, **gps_id**, ranch_id, rider_id, start_time, end_time, pasture_id, ride_id

VHF:

unit_id, freq, date_deployed, cow_id, person_deployed, date_removed, person_removed, ranch_id, type, missing

Conflict:

conflict_id, date, ranch_id, observer_id, time, lat, long, type_id, species_id, cattle_id, num

Riders:

rider_id, ranch_id, start, age, move, doc, type, freq, travel_id, experience, ranch_experience, LSH

Cortisol/BCS:

date, ranch_id, person_deployed, **cow_id**, cow_BCS, tag_color, cortisol, thyroid

Historical:

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

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

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Cattle:

cattle_id, date, ranch_id, rider_id, observer_id, camera_id, weather_id, temp, time, lat, long, time_to, num_calves, num_cows, num_bulls, num_other, event_start, event_end, stress_id, vigilant_id

Rides:

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

Predator:

pred_id, date, ranch_id, camera_id, weather_id, temp, observer_id, time, lat, long, type_id, species_id, num, kill