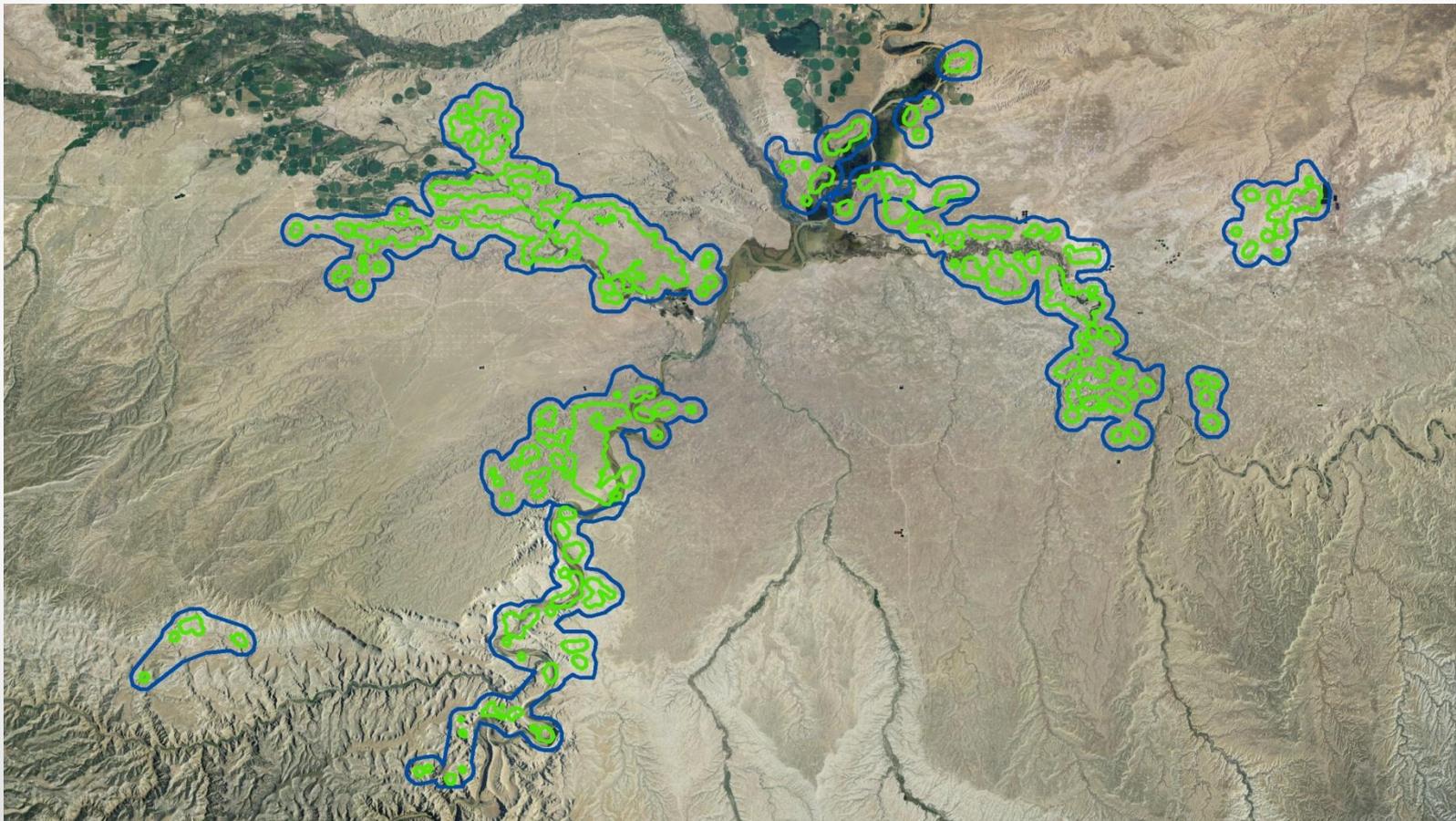


# Core Conservation Areas for Cactus

- What are they?
  - Areas that contain the densest concentrations of cactus with a 400 (level 1) and 1000 (level 2) meter buffer using a kernel density analysis
  - Buffers based on travel distances of most common bee species that visit Sclerocactus plants to allow for genetic flow between individuals and populations
  - Contain management recommendations for oil and gas development in these areas that allow for the conservation and recovery of both cactus
  - Similar recovery guideline contained within 1990 recovery plan, is part of the current recovery plan
  - Target goal of 25% of range (includes level 1 and 2 areas)
  - Recent EIS's incorporated these areas during Section 7 Consultation

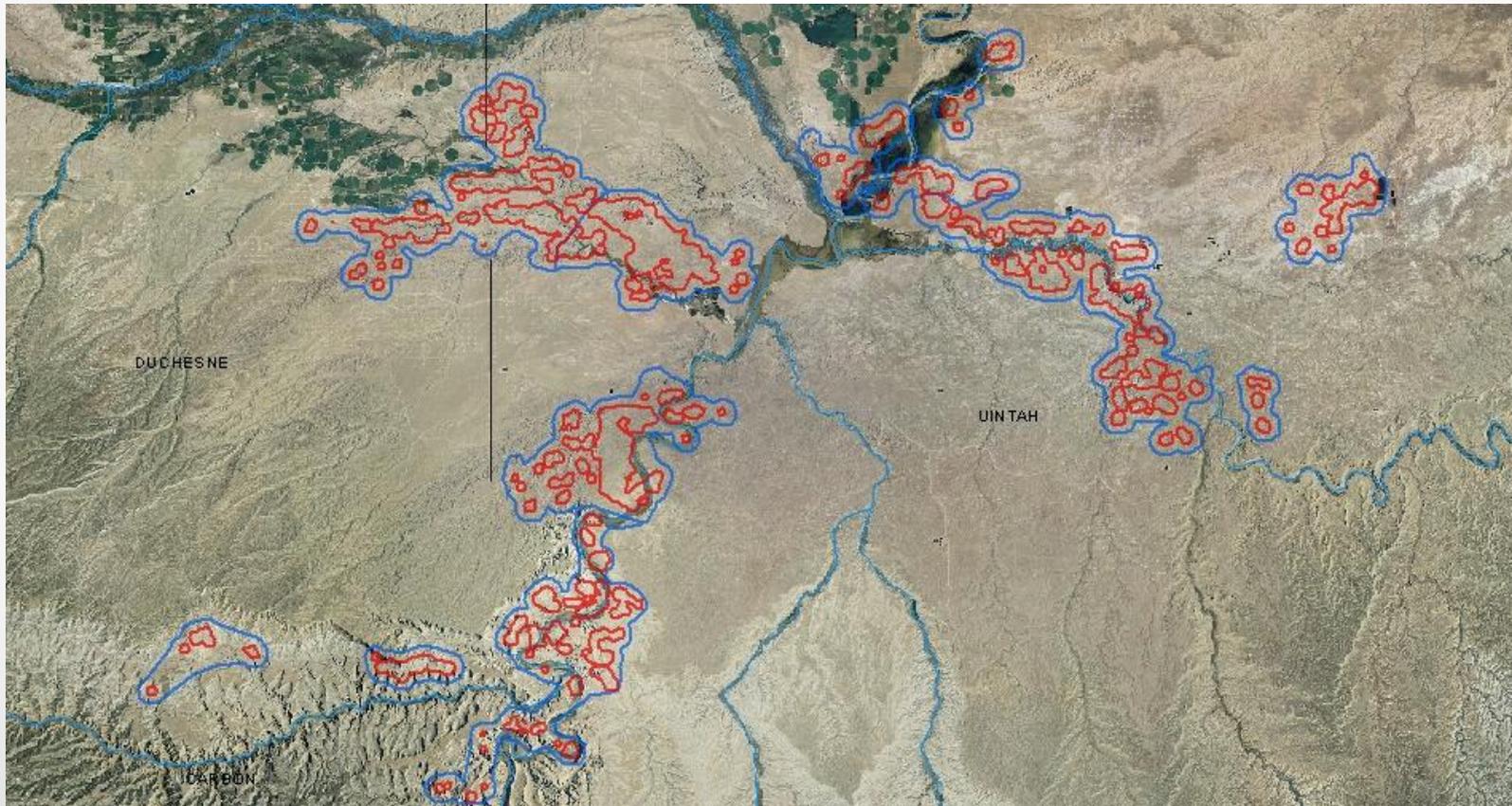
# Core Conservation Areas for Cactus

- Where are they?



# Core Conservation Areas for Cactus

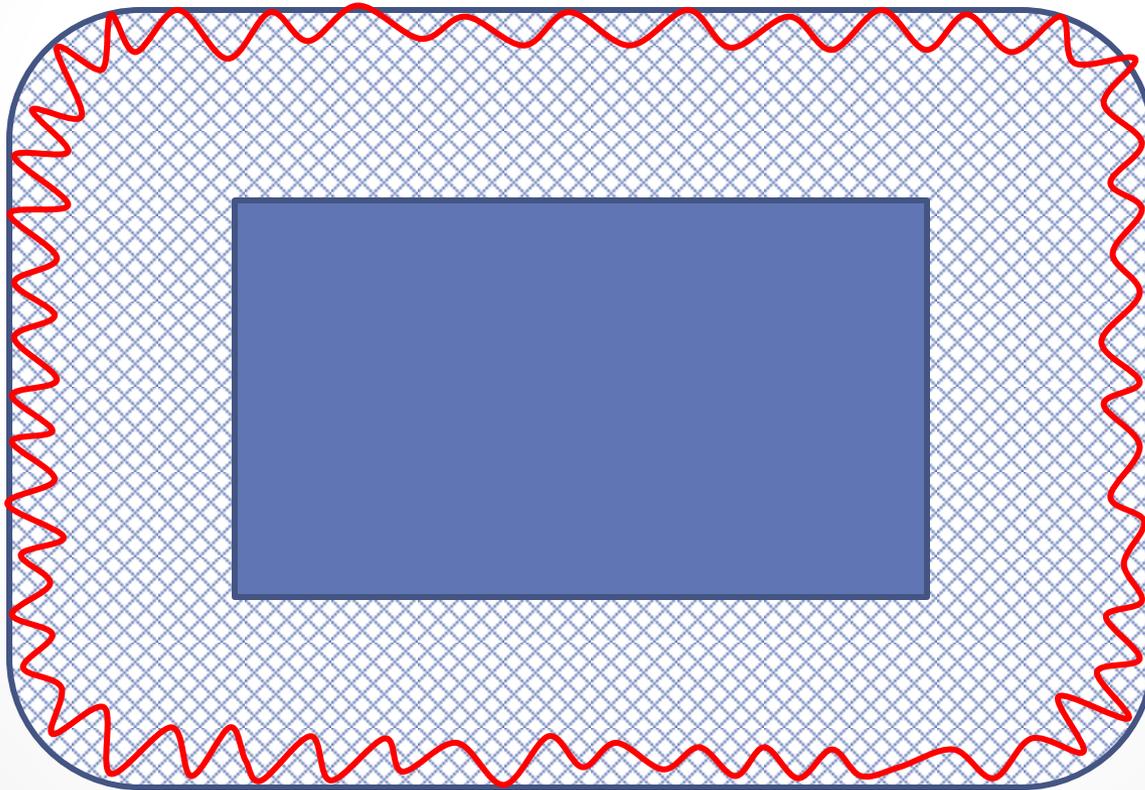
- Where are they?



# Update on Survey Protocol

- Current length of survey validity for *Sclerocactus* is one year from date of survey for *wetlandicus* and until March 15<sup>th</sup> of following year for *brevispinus*.
- Due to potential impact from repeated survey effort at same location, we are finalizing protocol with the BLM to extend this window to **4 years**
- Would be conditional on results of a “spot check survey”
  - Reduced survey effort targeting the outer boundary of the previous survey area
  - \*10 foot transects via meander survey method
  - \*there may be limitations regarding areas adjacent to or downslope of known plants and other habitat factors
- If plants found during spot check, full survey may be required

# Update on Survey Protocol



# Update on Survey Protocol

- Spot check survey only good for the 2 cactus species
- If updated, will provide to you

# Questions?

