Pronghorn Monitoring in the Pinedale Anticline Project Area:

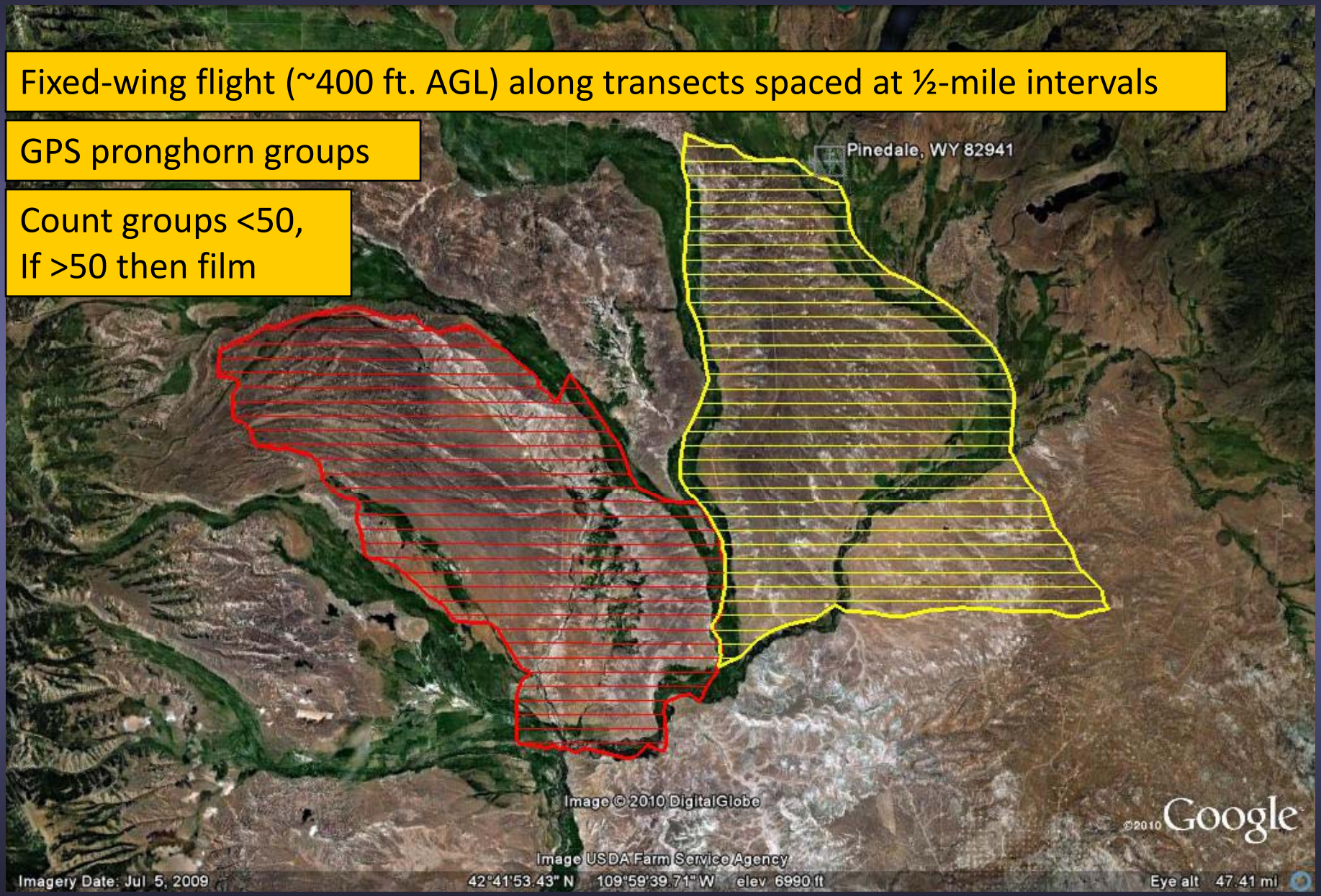
2010 Update

Ryan Nielson and Hall Sawyer

Wildlife Monitoring and Mitigation Matrix (WMMM)

Criteria	Method	Changes that will be monitored	Specific change requiring mitigation
Change in Anticline antelope numbers	Present WCS antelope study; Present TRC project and use of WGFD data	Change in antelope numbers in any year, or a cumulative change over all years, initially compared to first year of available antelope data	15% decline in any year, or cumulatively over all years, compared to reference area (Sublette antelope herd unit or other, mutually agreeable area)
Size of habitat fragments used		Use by antelope in any year, initially compared to first year of available antelope habitat use data, and a concurrent change in antelope numbers compared to first year of available antelope data	10% decline in habitat availability for one year, and a concurrent 15% change in antelope numbers for that year, compared to reference area (Sublette antelope herd unit or other mutually agreeable area).

Approach: Pronghorn Abundance



Fixed-wing flight (~400 ft. AGL) along transects spaced at ½-mile intervals

GPS pronghorn groups

Count groups <50,
If >50 then film

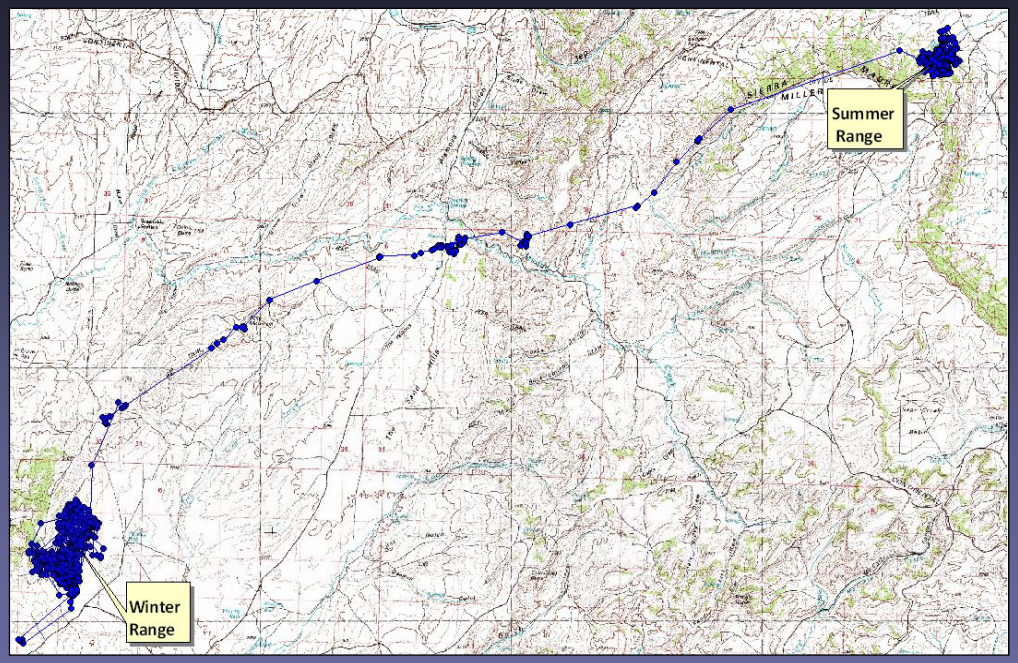
Pronghorn monitoring:

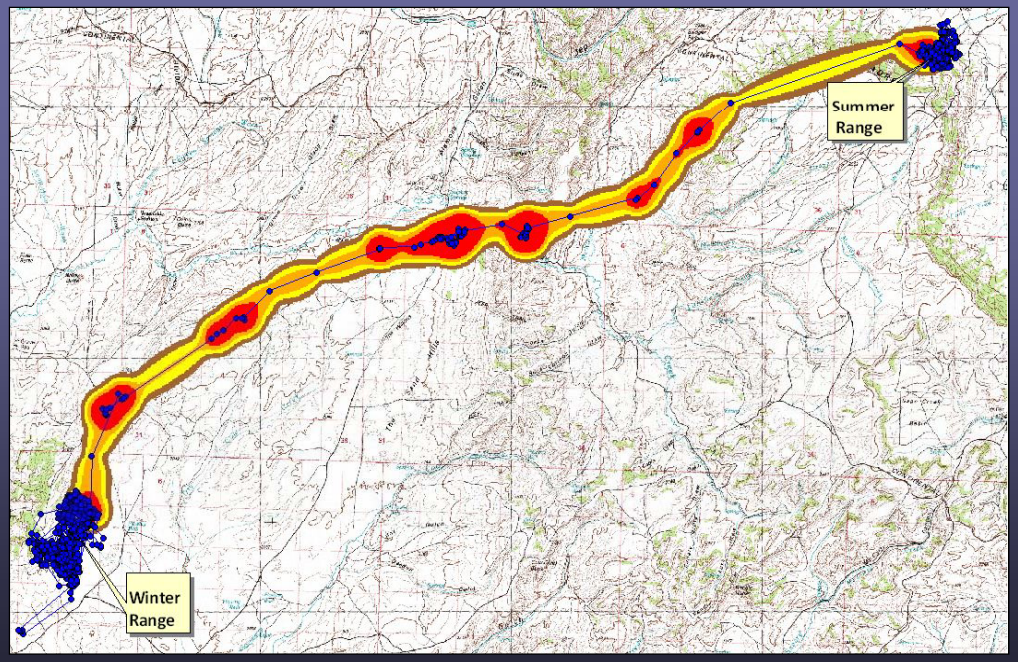
- 1 flight in January 2010
- 1 flight in February 2010
- no March flight (poor snow cover)

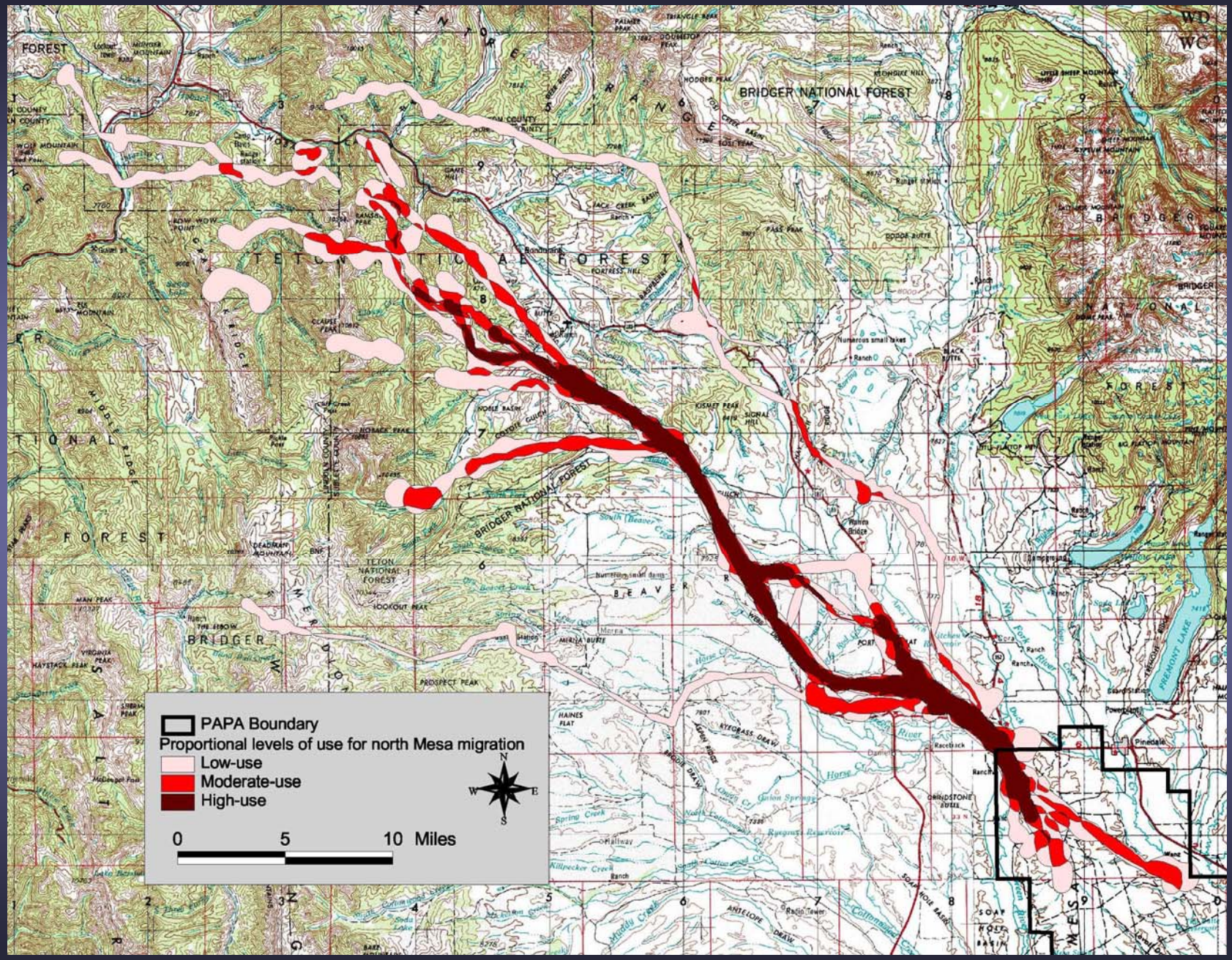
- Collars (30 GPS) drop November 1, 2010
- Analysis: December – January
- February 2011: Draft report to PAPO
- April 2011: Draft report to PAPO

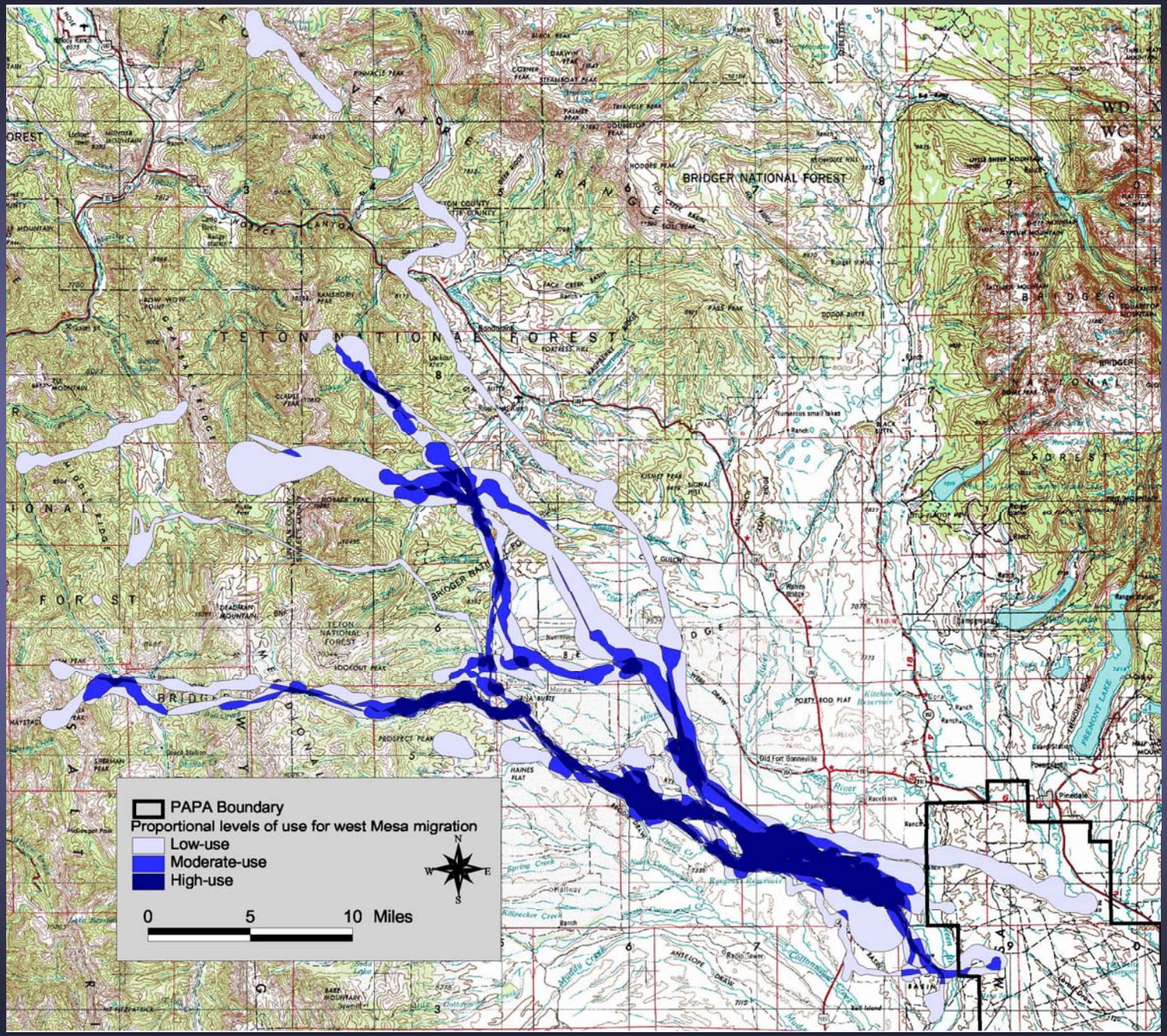
Pronghorn monitoring:

Resource Selection
&
Migration Routes






PAPA Boundary
Proportional levels of use for north Mesa migration
Low-use
Moderate-use
High-use
0
5
10 Miles
N
S
E
W
BRIDGER NATIONAL FOREST
TETON NATIONAL FOREST
BRIDGER NATIONAL FOREST
TETON NATIONAL FOREST
BEAVER
Pinedale
FREMONT LAKE


PAPA Boundary
Proportional levels of use for west Mesa migration
Low-use
Moderate-use
High-use
0
5
10 Miles
N
S
E
W
BRIDGER NATIONAL FOREST
TETON NATIONAL FOREST
Pinedale

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