

Research Ideas

Gary Kohler Suggestions

* mortality of 1/2 curl rams - leave mother

Sheep - summer/winter range
what determines herd size
social organization (prey ecol.)

Raptors - fall migration

Inventory wood supply & cavity nest

Solar Pannels & energy ^{self sufficient} efficient

Monitor spruce budworms ^{insect} in natural system

Forestry

Mistletoe Infestation - managed vs. non-managed

Much mistletoe DF up Pioneer Creek.

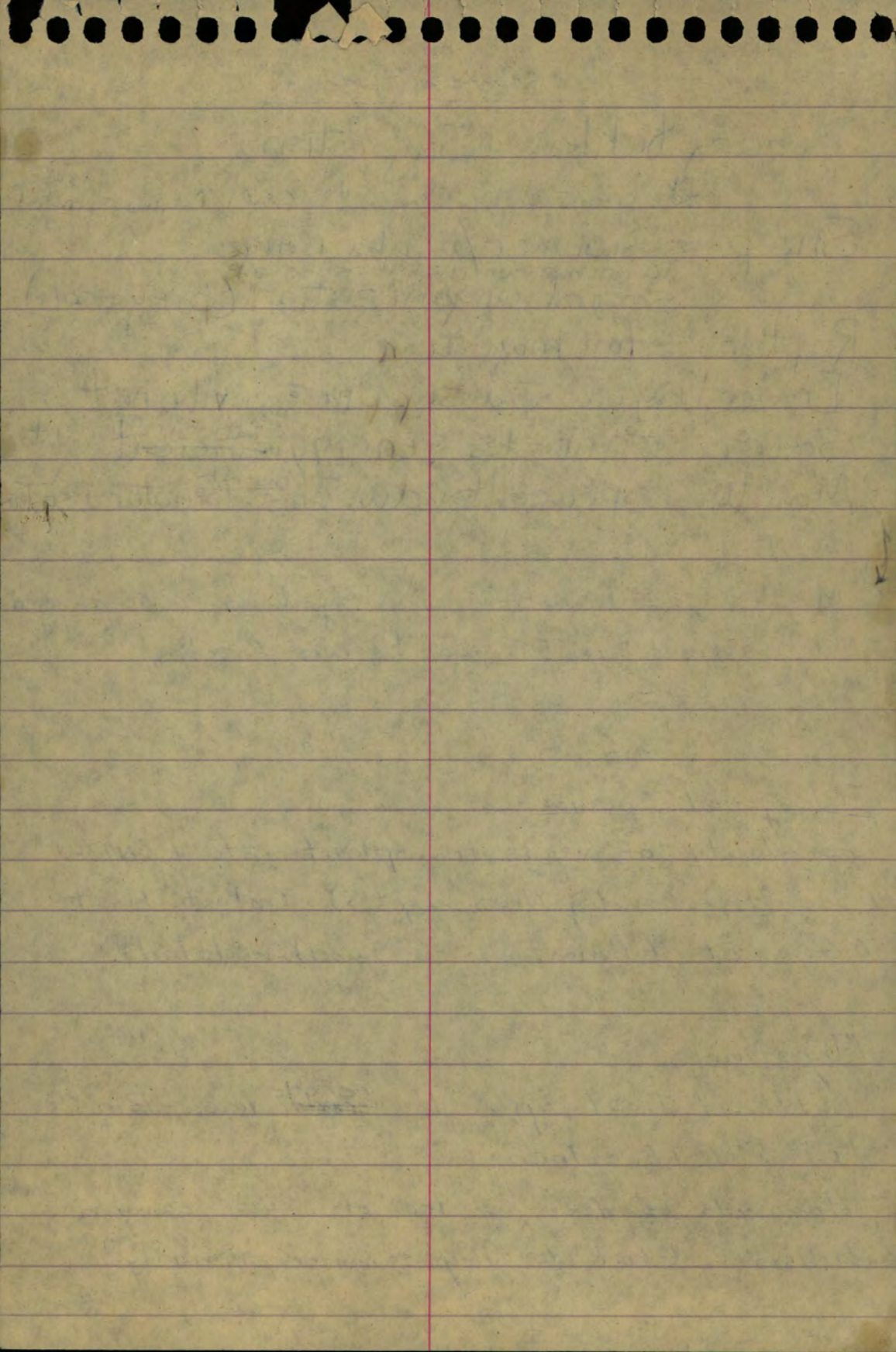
Endangered Species

Feasibility of wolf transplant into RONRW
(See High Country News, Sept. 3) Contact Bart
O'Garra at Uof Montana for further details.

Migration

Cutthroat Trout appear to ~~recede~~ ^{recede} down Big Cr.
to Mid. Fl. Salmon.

Hundreds of deer winter on lower canyon
hillsides. Where do they summer primarily?



Jim & Holly Akenson
September 1982

House Ver. w
copy for 1984

Research Ideas for Taylor Ranch

Wildlife

- Bighorn sheep movements
- Stream fluctuations
- Bird list
- (Small) Mammal list
- Mortality of $\frac{1}{4}$ curl rams (1 yr old)
- Sheep summer & winter range
- Sheep herd size determinant
- Sheep - social organization (prey ecol)
- Raptors - fall migration
- Wood supply vs cavity nesters inventory
- * Wolf transplant & preliminary studies (Bart O'Gara, UM)
- Cutthroat trout migration
- Deer migration
- * Snag mortality in burns
- Bear ecology
- Cutthroat trout - rainbow cross
- Limiting factors of population of ungulates (elk)
- Big game (sheep) age profiles
- BG - population limitations - forage Winter/Summer
- BG reproductive rates
- Amino acid analysis - Epidemiology - Nutrition (Bill)
- Recreation
- On & off trail use by hunters
- * RONRW Comprehensive LM Plan, USES
- Wilderness use - purpose & method of entry

Botany

- Habitat types/plant comm. plotted on aerial photos
- * Plant reference collection (herbarium)
- Plant list of species
- Spruce budworm/Tussock
- Moth in natural ecosystem
- Mistletoe - managed vs unmanag.
- Fire succession/ecology

Physical

- * Weather station
- Geologic?
- Solar panels

Cultural/Historical

- Indian camps & use on Big Cr.
- Outfitting in modern times

- Cavity nests - band & popul long term marked
- Long term Pop of Big Game
- Cave Ecology

~~Suggestions from Faculty Survey~~

Faculty survey

Genetic Variation - trees & bugs ; gene pool

Soils

blue grouse ecol. of wilderness areas

overgrazing by pack animals -? controversial
species diversity

historical use - anthro

succession - plant/animal

historical aerial photography - ^{veg.} changes over time

human perceptions of natural environments

role of outfitters in wilderness

riparian plant community study } Steve

Plant community study } Brunnsfeld

aquatic insects - also all limnology

ecology of mountain meadows

natural sediment loads of streams

ecology of boreal owls

population dynamics of lightly harvested ^{or semi-natural} mammal popul.
kinds, interactions, rates, impacts of tree problems as related to ^{disturbed} areas

nutrient cycling in undisturbed forest setting

plant & plant comm. survey for changes in existing classifications

plants indicating strange habitats } Fred Johnson