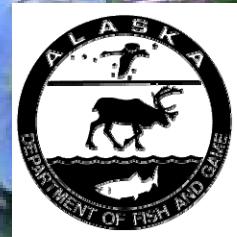
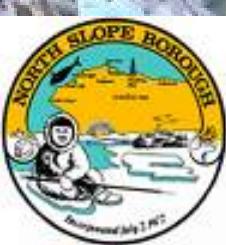


Alaskan Barren Ground Caribou – Current Status Review

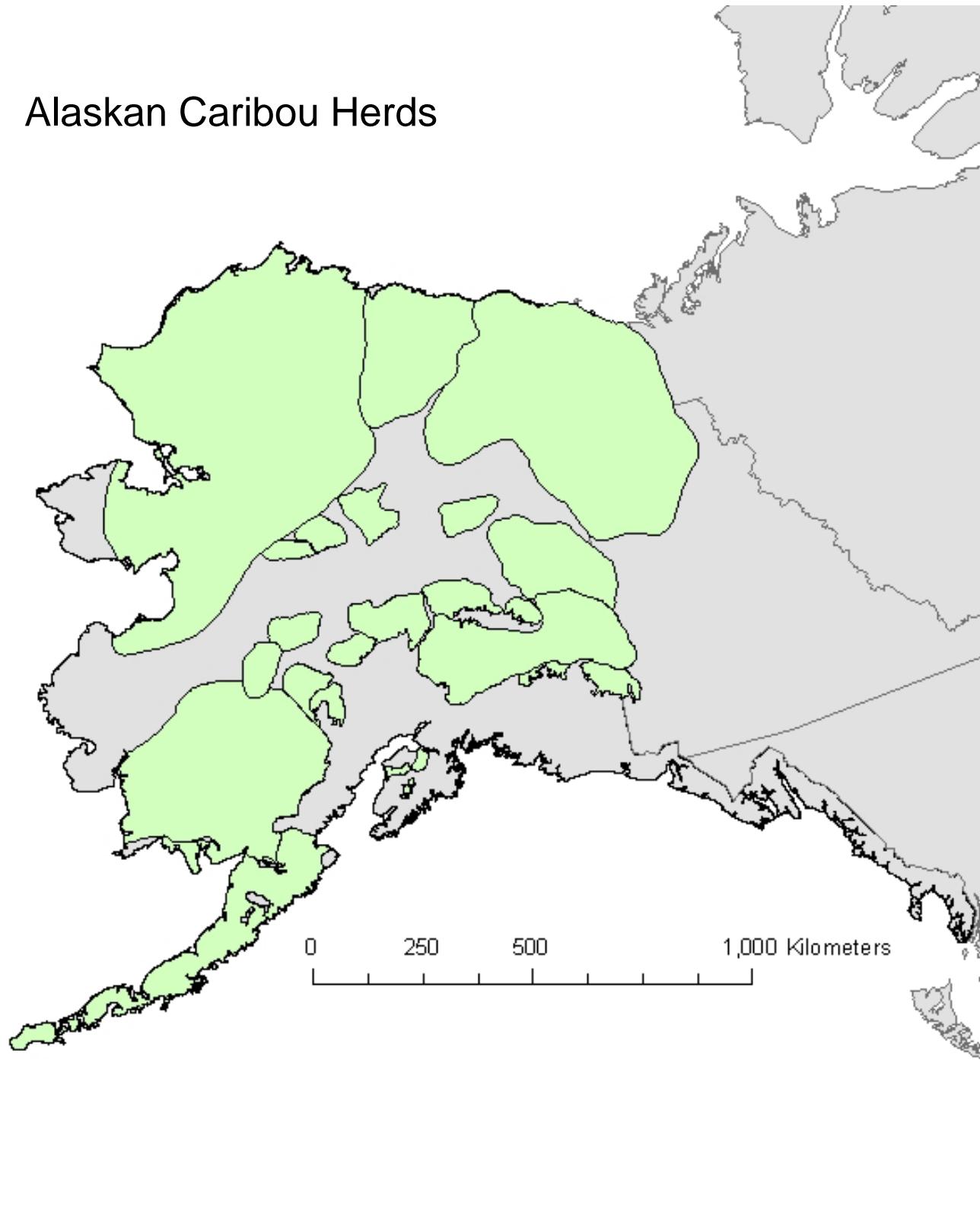
Lincoln Parrett
ADFG



Acknowledgements

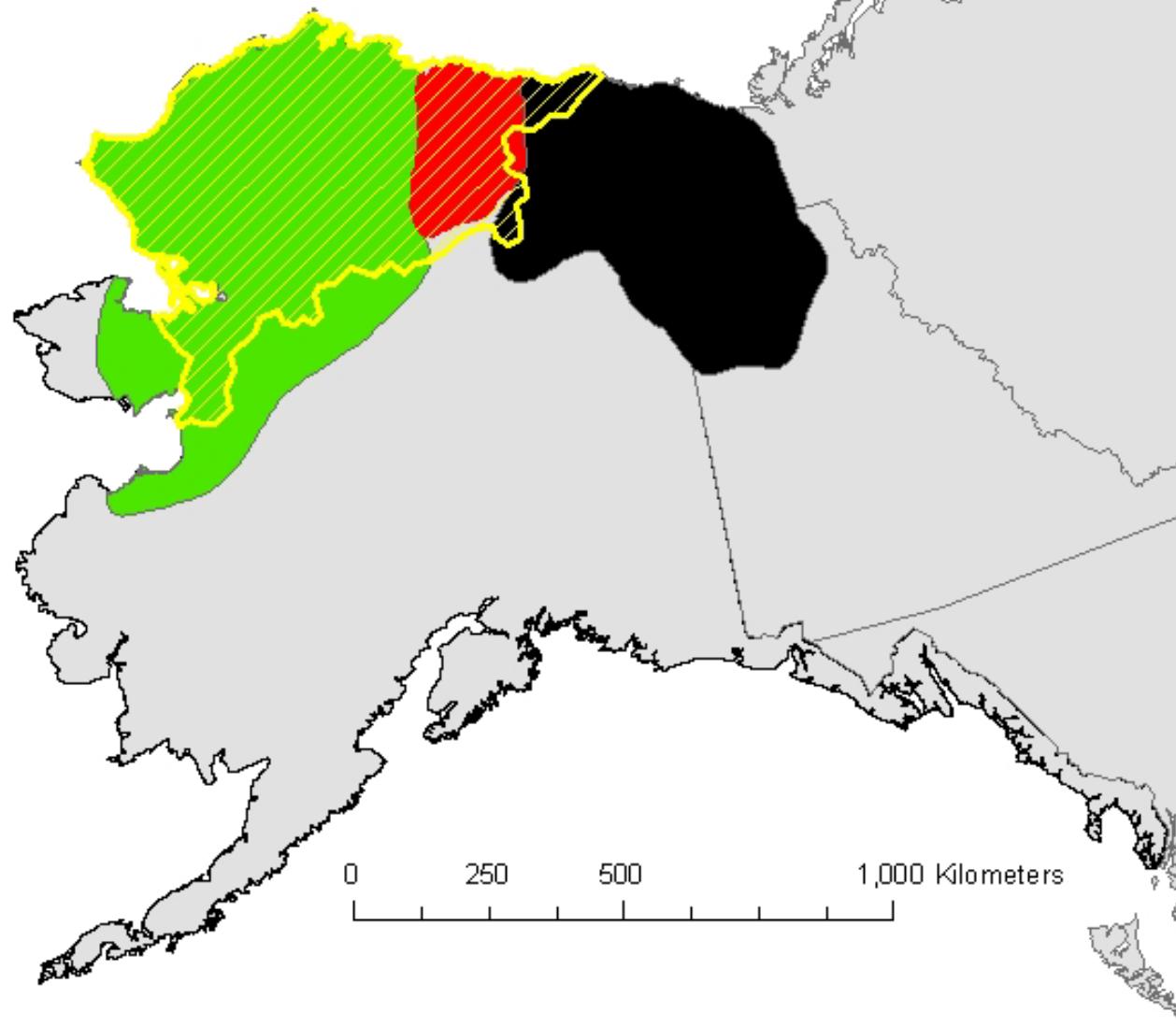


Alaskan Caribou Herds

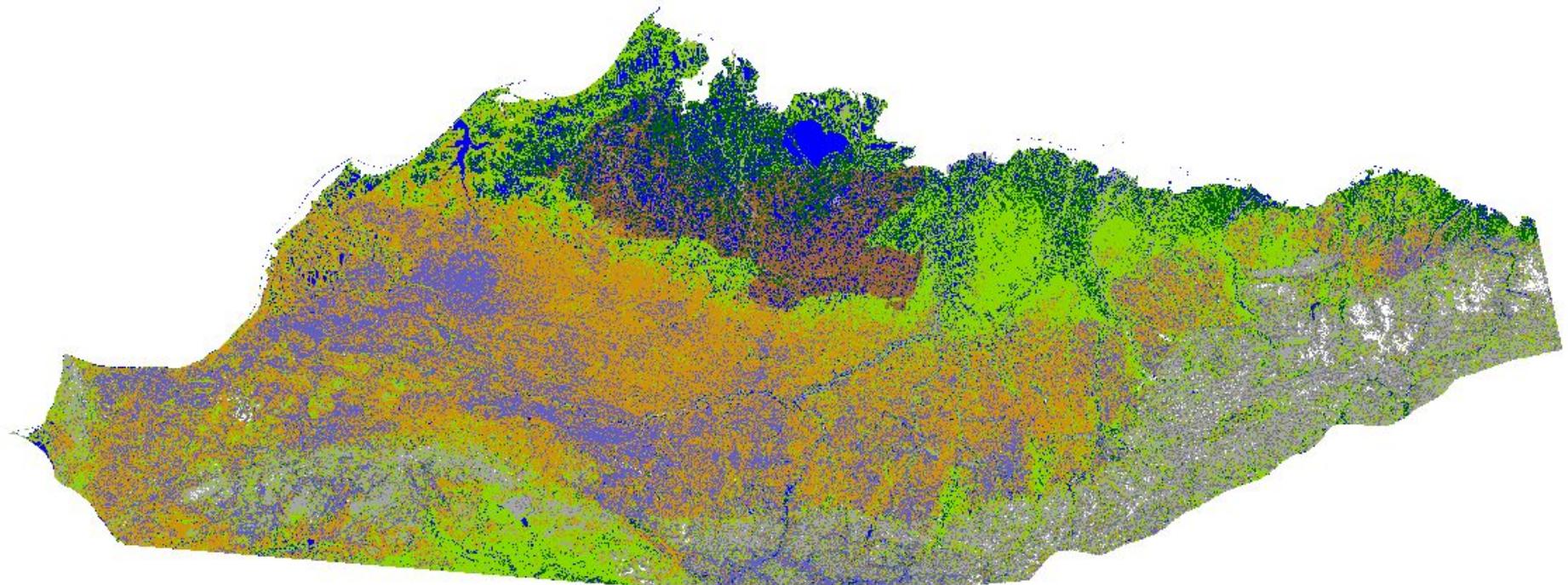


HERD

- Teshekpuk (TCH)
- Porcupine (PCH)
- Central Arctic (CAH)
- Western Arctic (WAH)

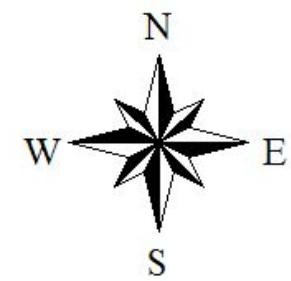


Landsat MSS 100m Vegetation Map



Vegetation Classes

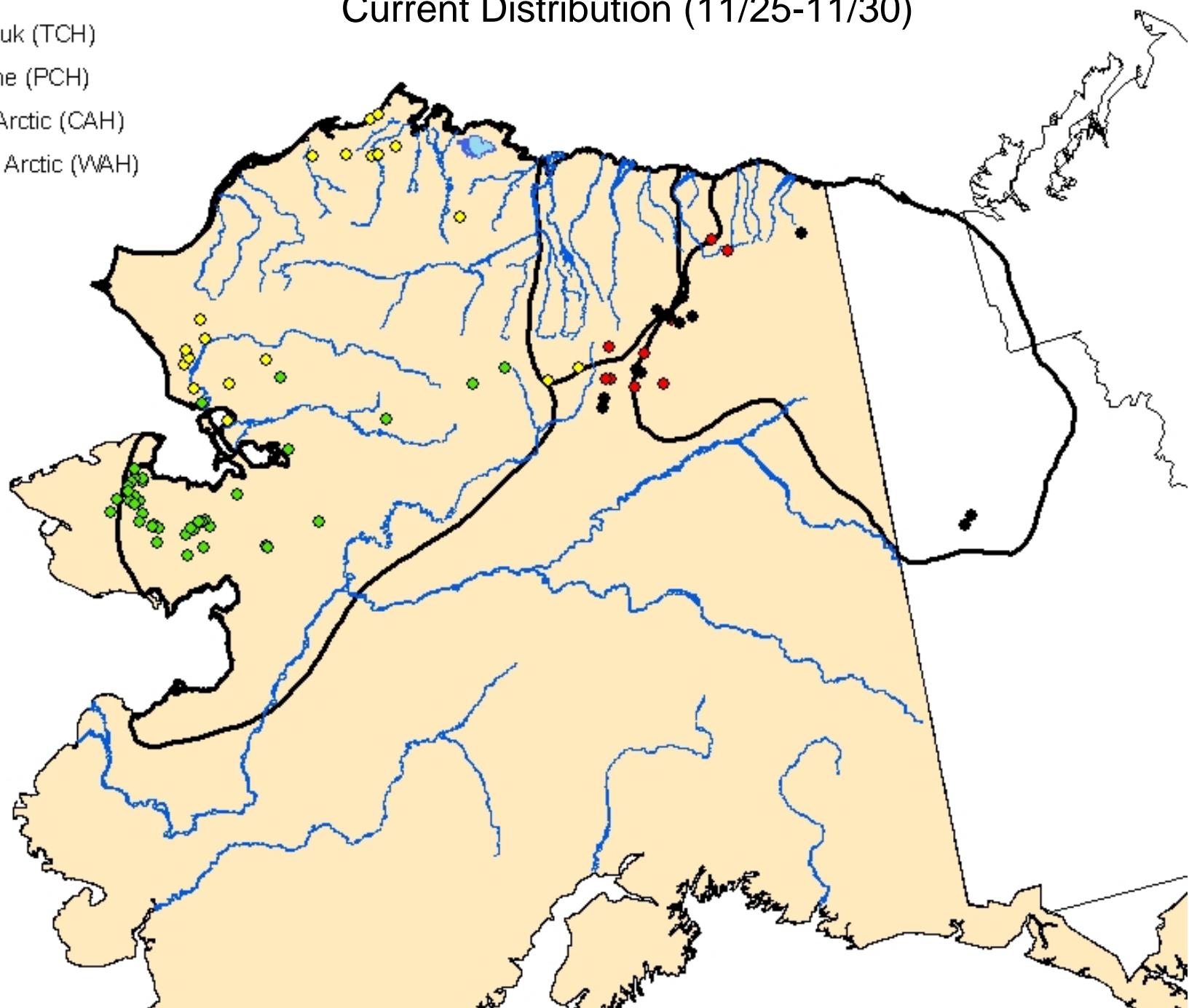
- [Grey box] Dry prostrate-shrub tundra and barrens
- [Green box] Moist-graminoid prostrate shrub tundra (non-acidic)
- [Yellow box] Moist dwarf-shrub tussock-graminoid tundra (typical tussock tundra)
- [Purple box] Moist low-shrub tundra and other shrublands
- [Dark Green box] Wet graminoid tundra
- [Brown box] Moist tussock-graminoid, dwarf-shrub tundra (cold, acidic)
- [Blue box] Water
- [White box] Snow and ice
- [Dark Grey box] Shadows

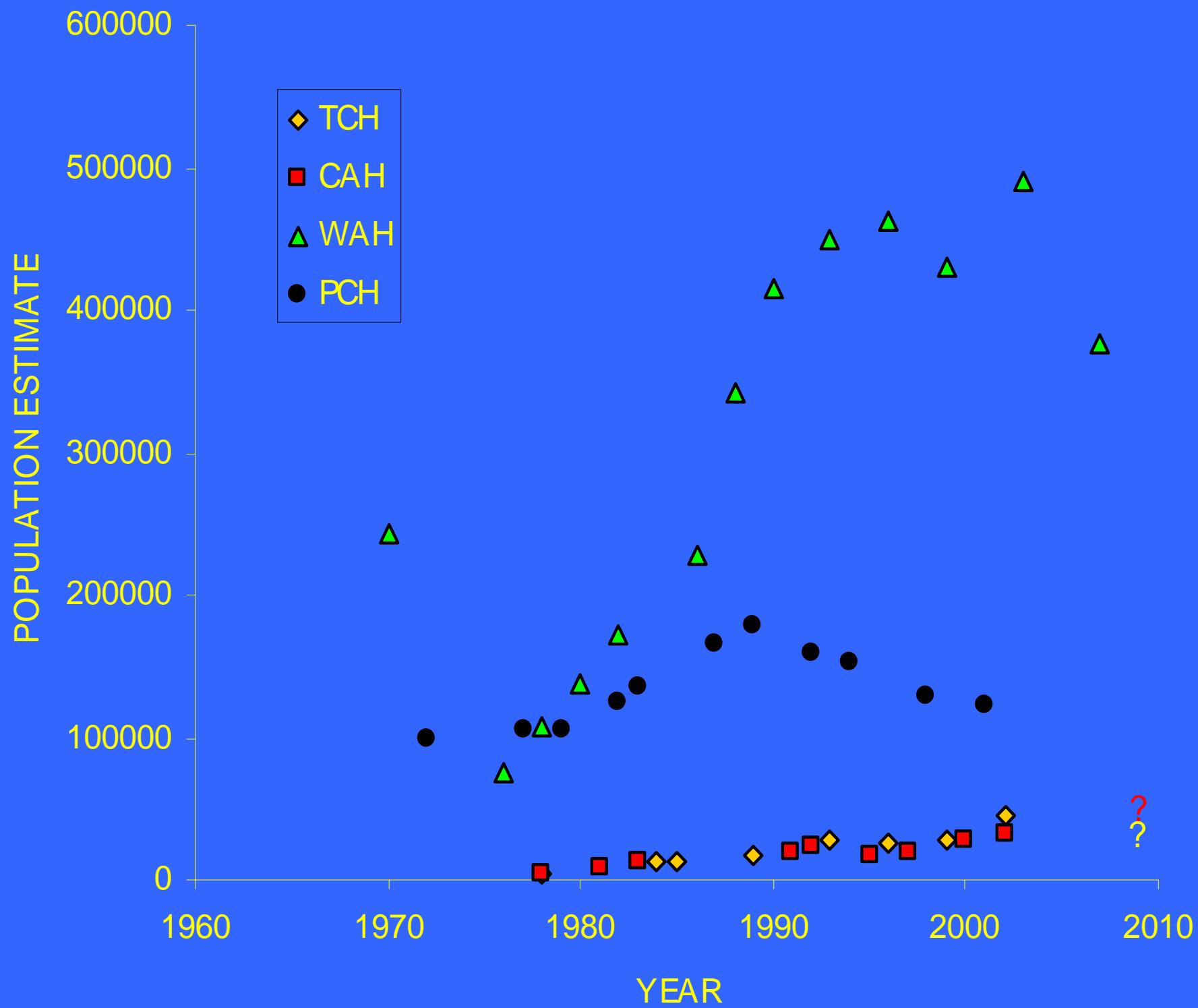


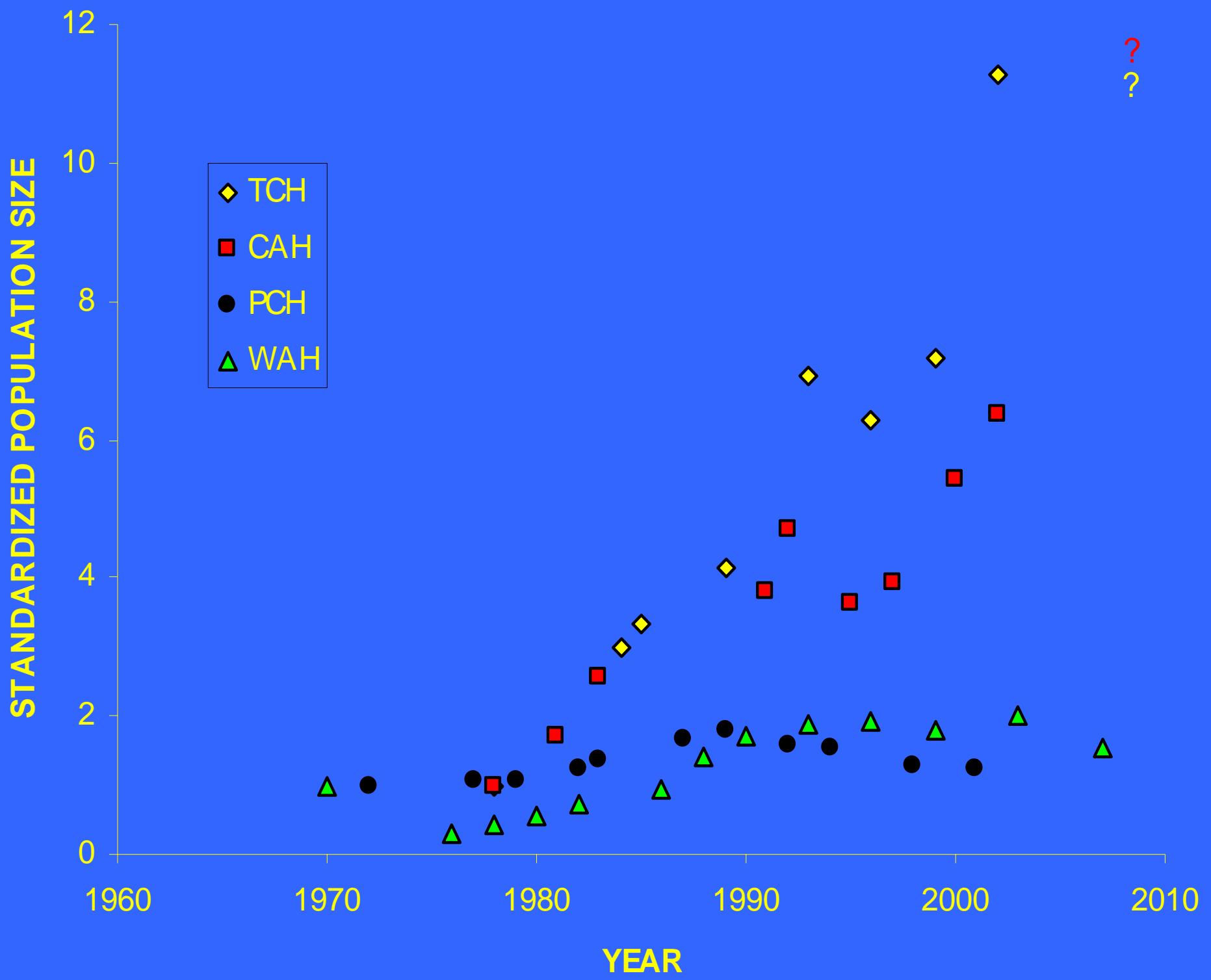
HERD

- Teshekpuk (TCH)
- Porcupine (PCH)
- Central Arctic (CAH)
- Western Arctic (WAH)

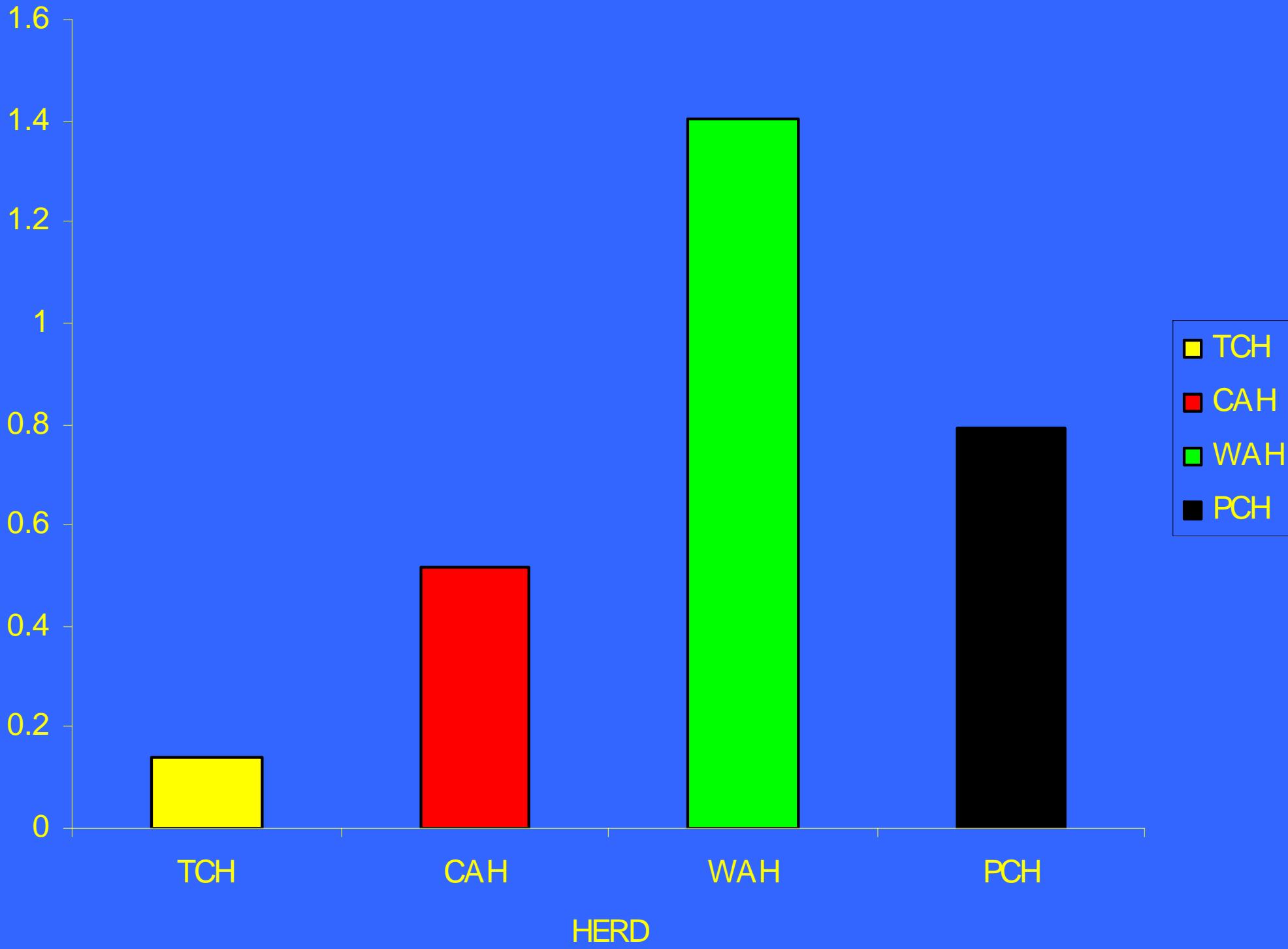
Current Distribution (11/25-11/30)

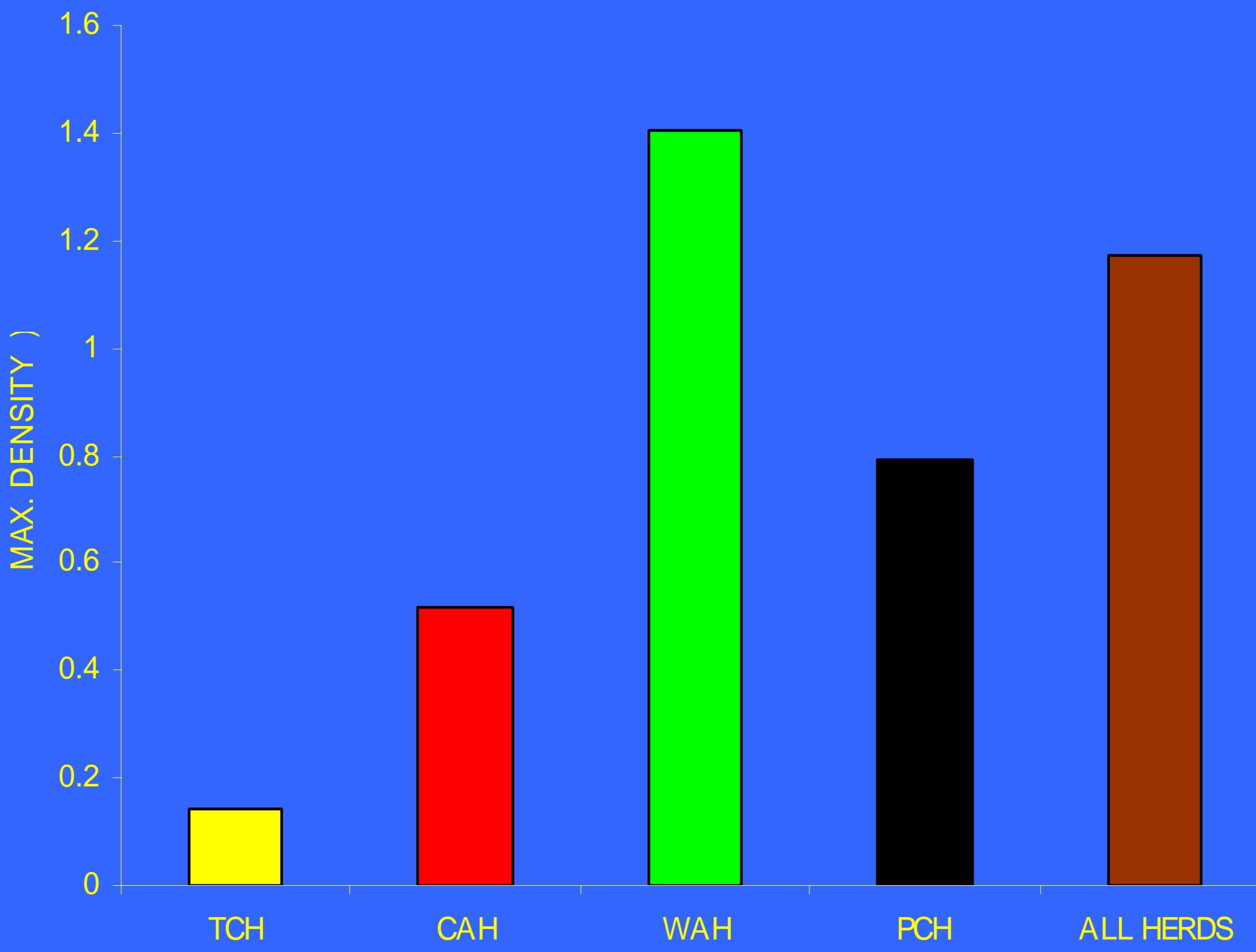






MAXIMUM DENSITY ON ANNUAL RANGE





WAH



TCH

average concentrated
calving area

CAH

average annual calving
ground

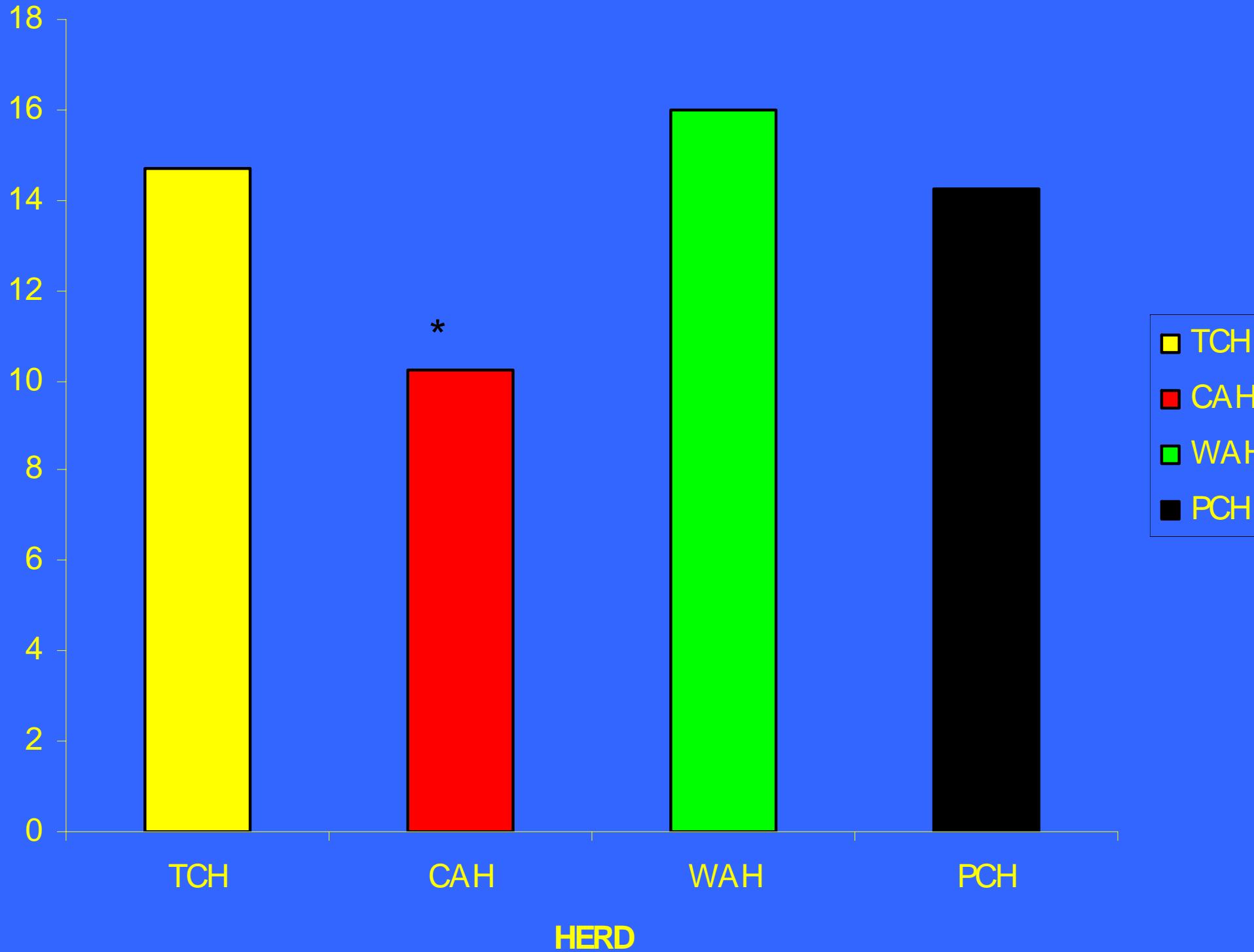
PCH

extent of calving

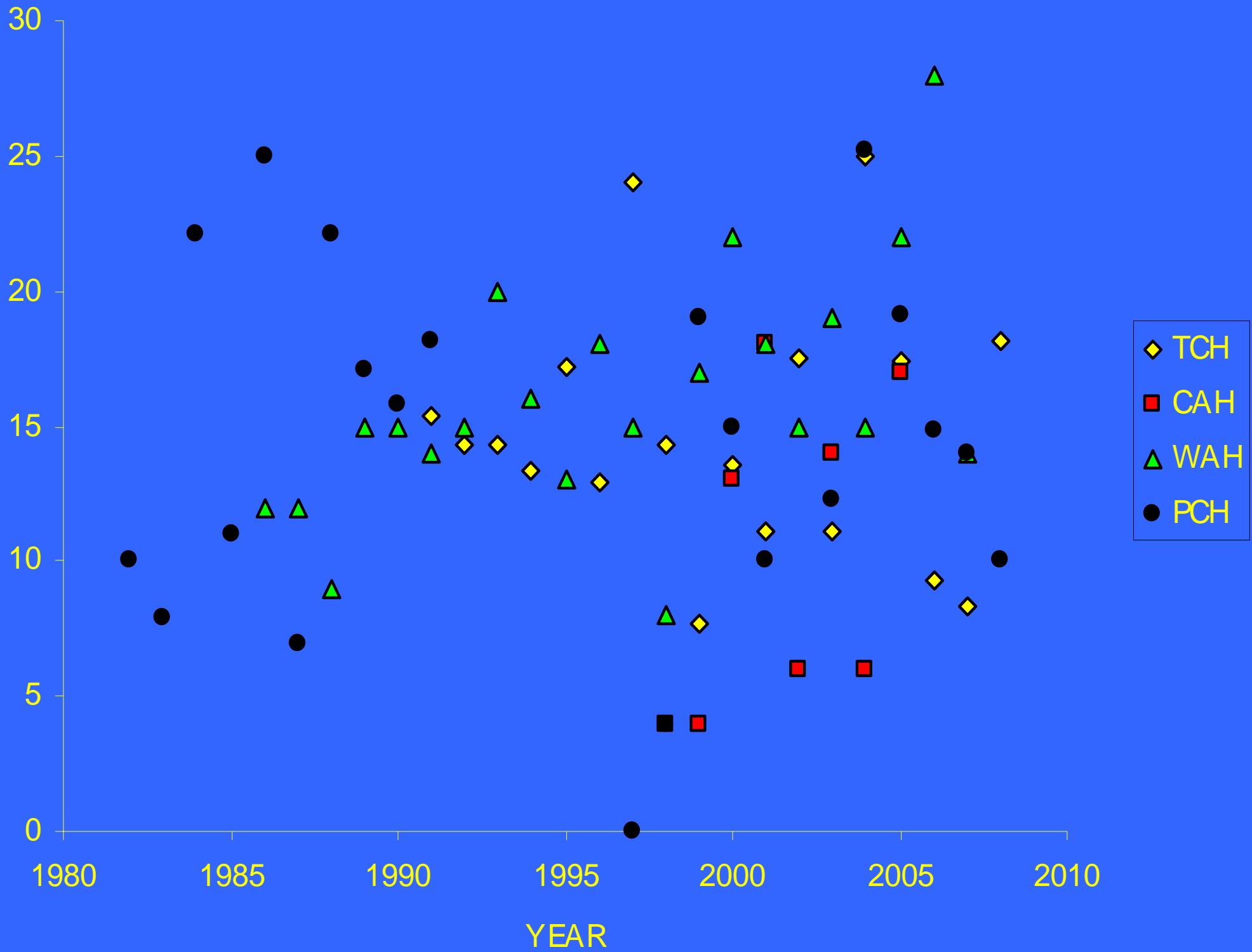
0 50 100 150 200

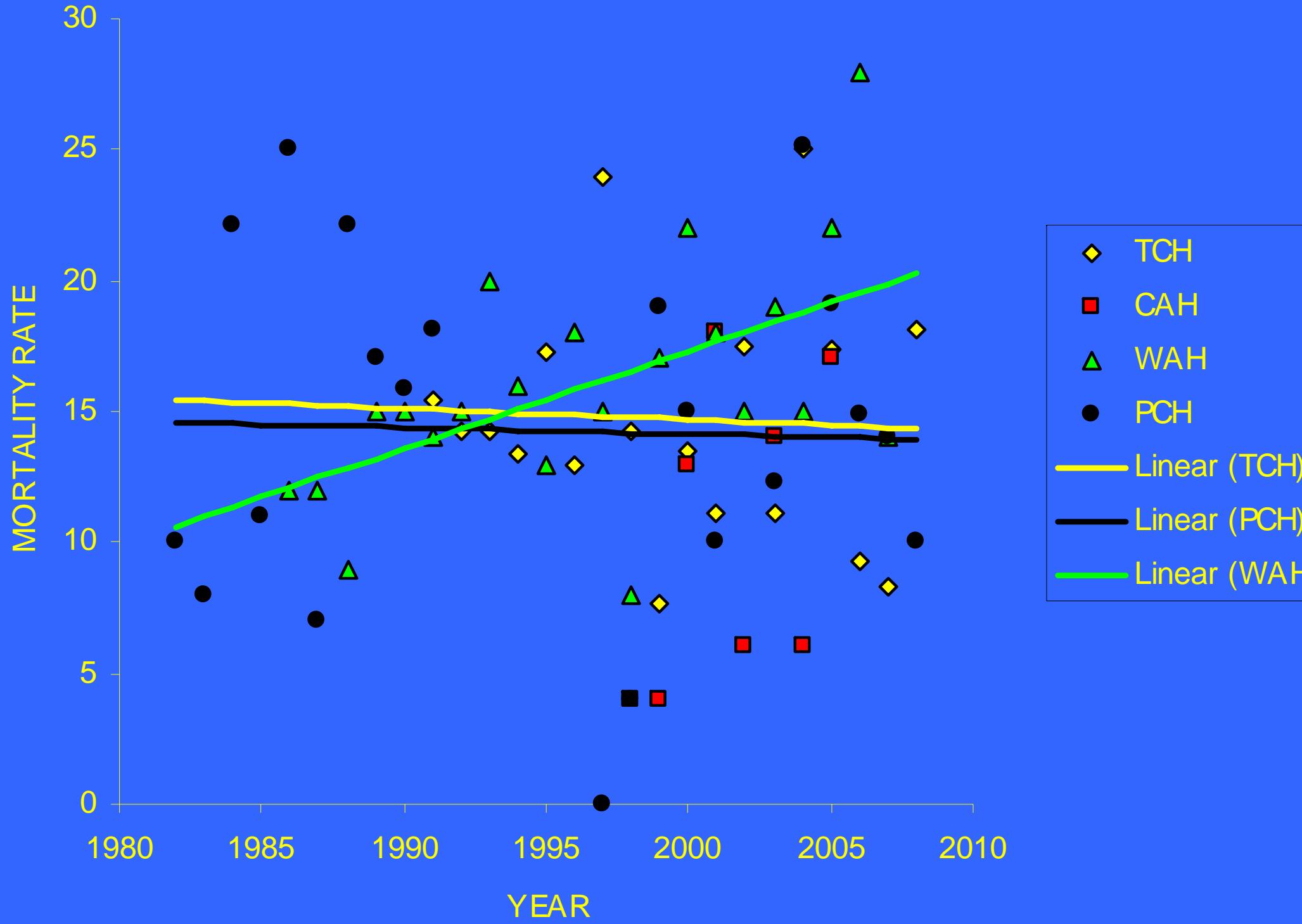
Approximate non-bull Density #/ km²

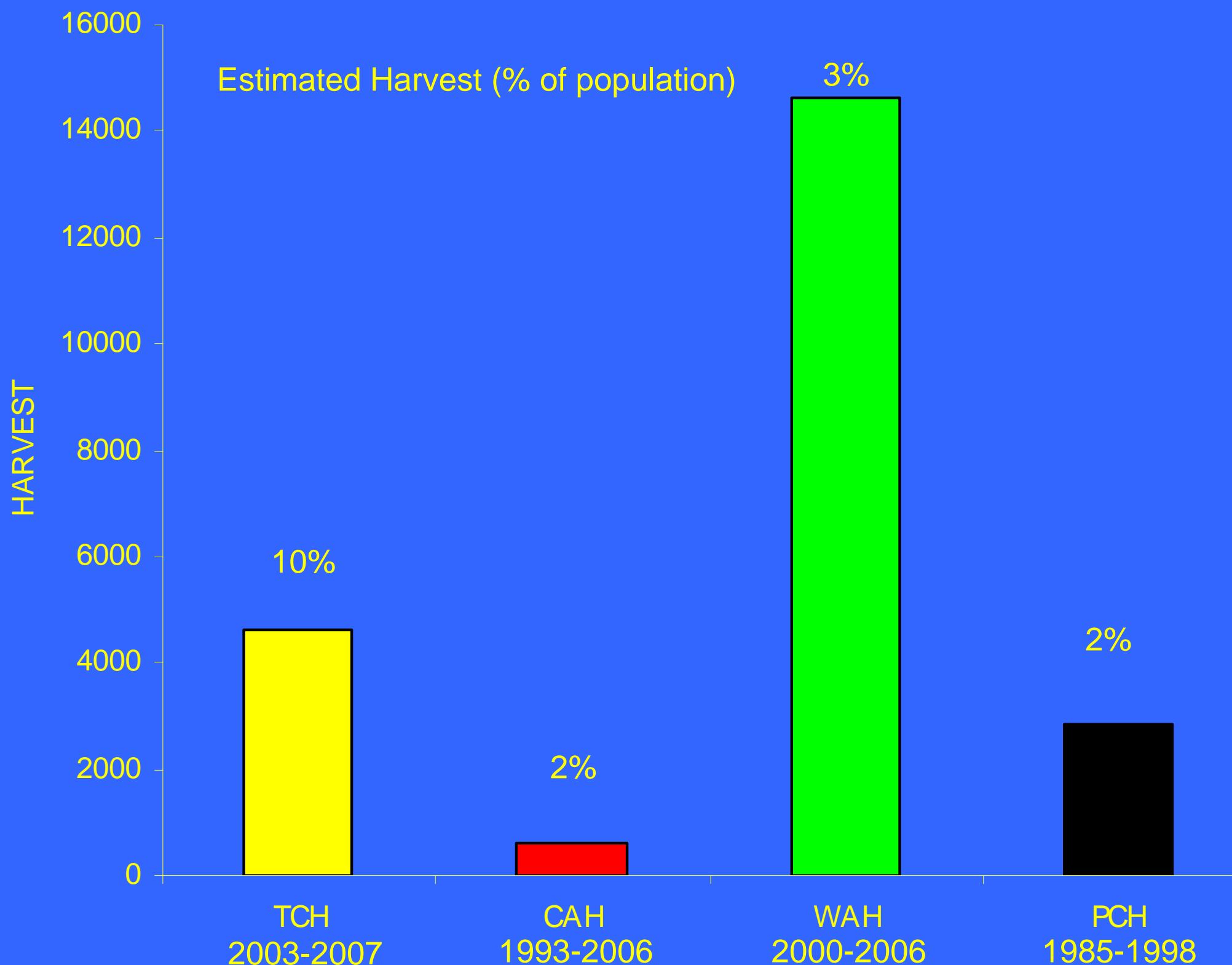
AVERAGE ADULT FEMALE
MORTALITY RATE (%)

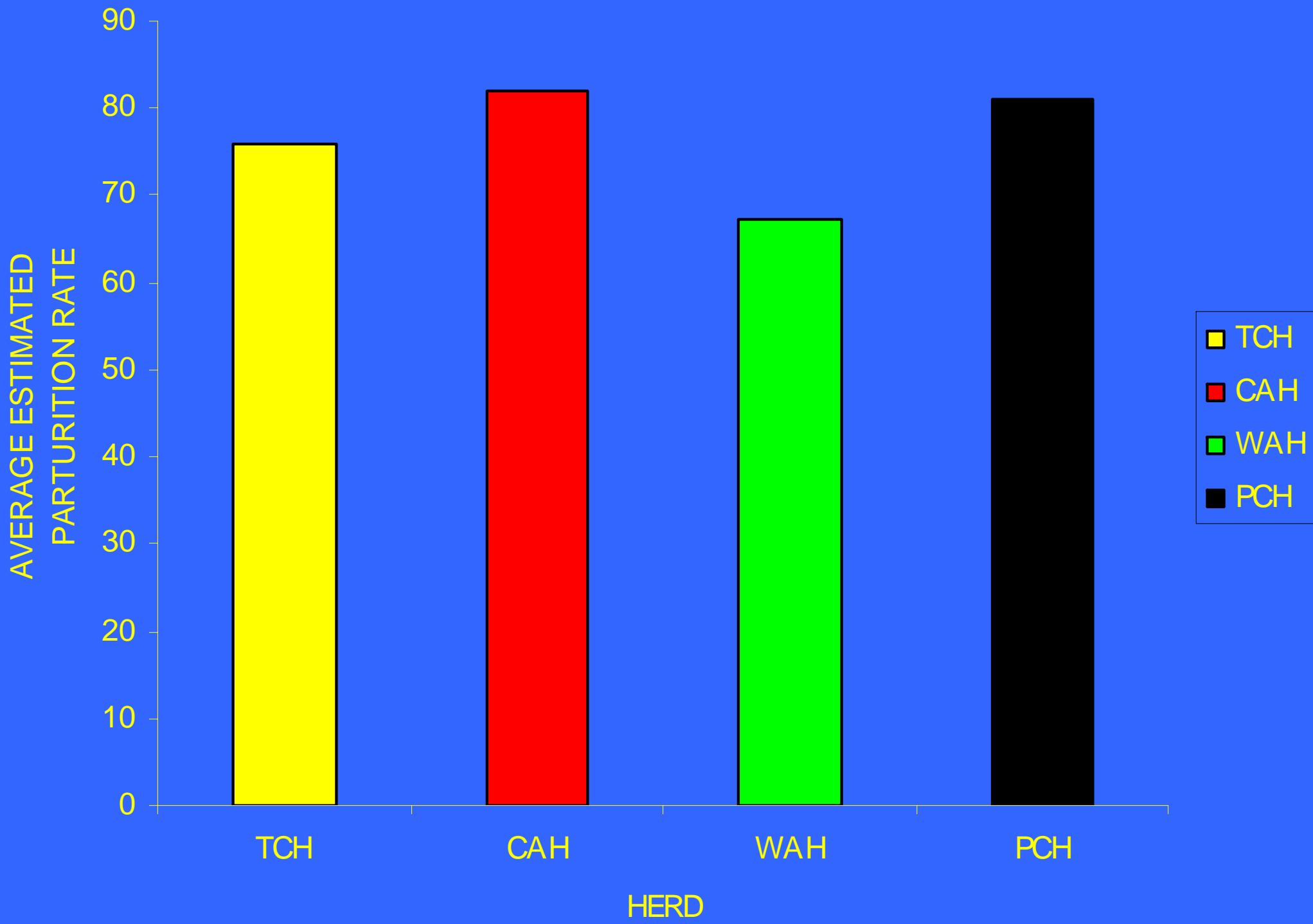


MORTALITY RATE

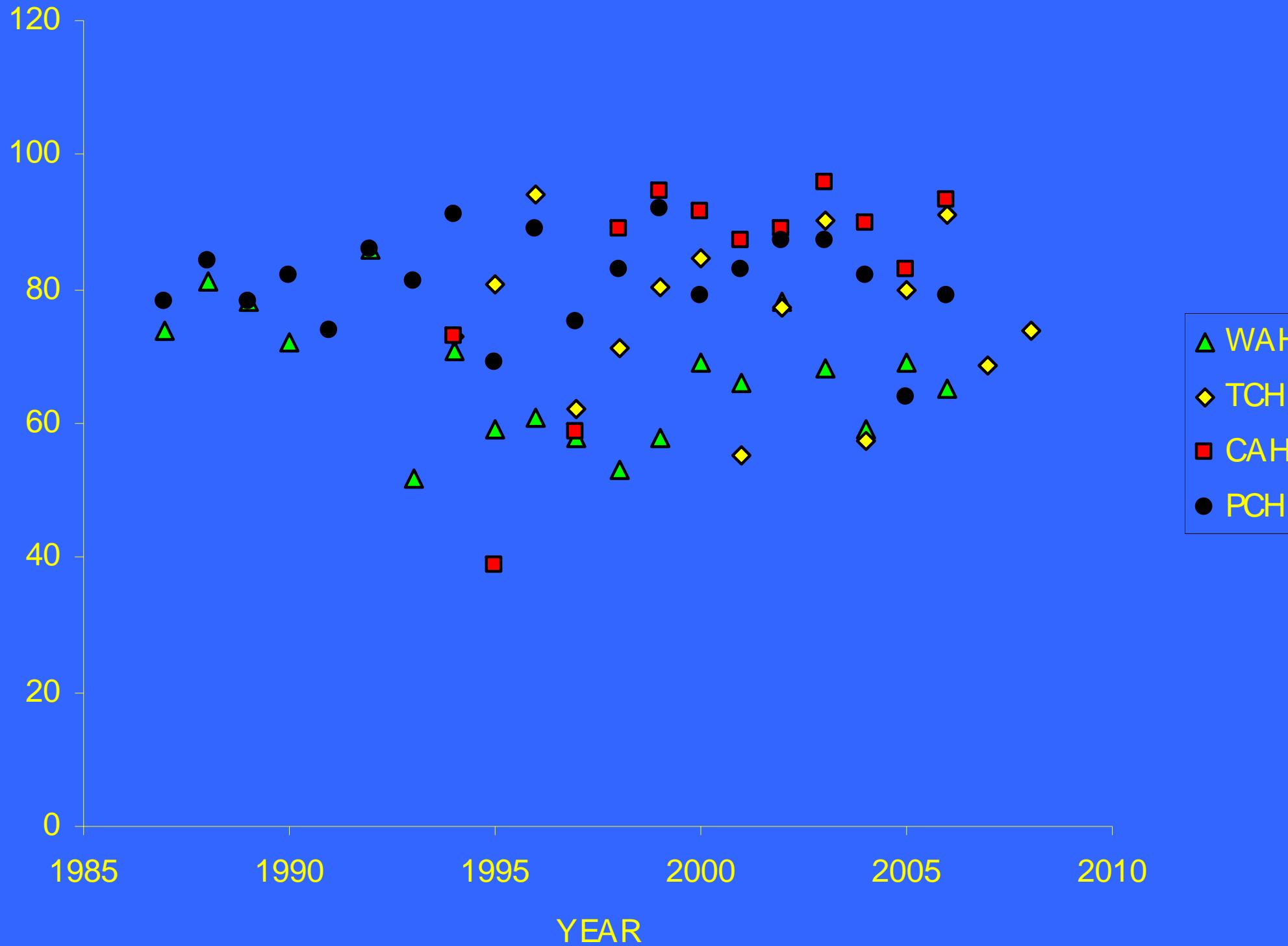


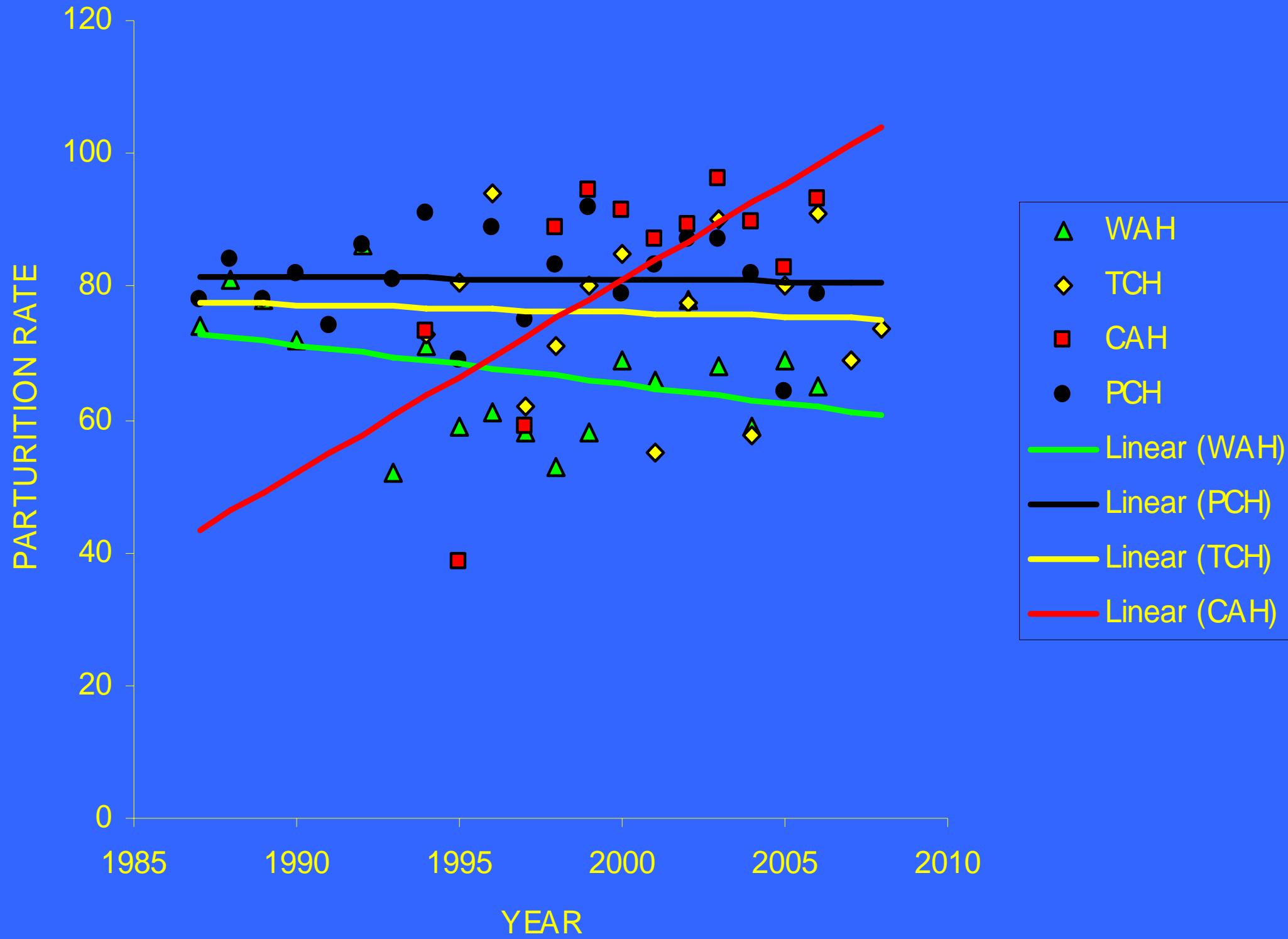




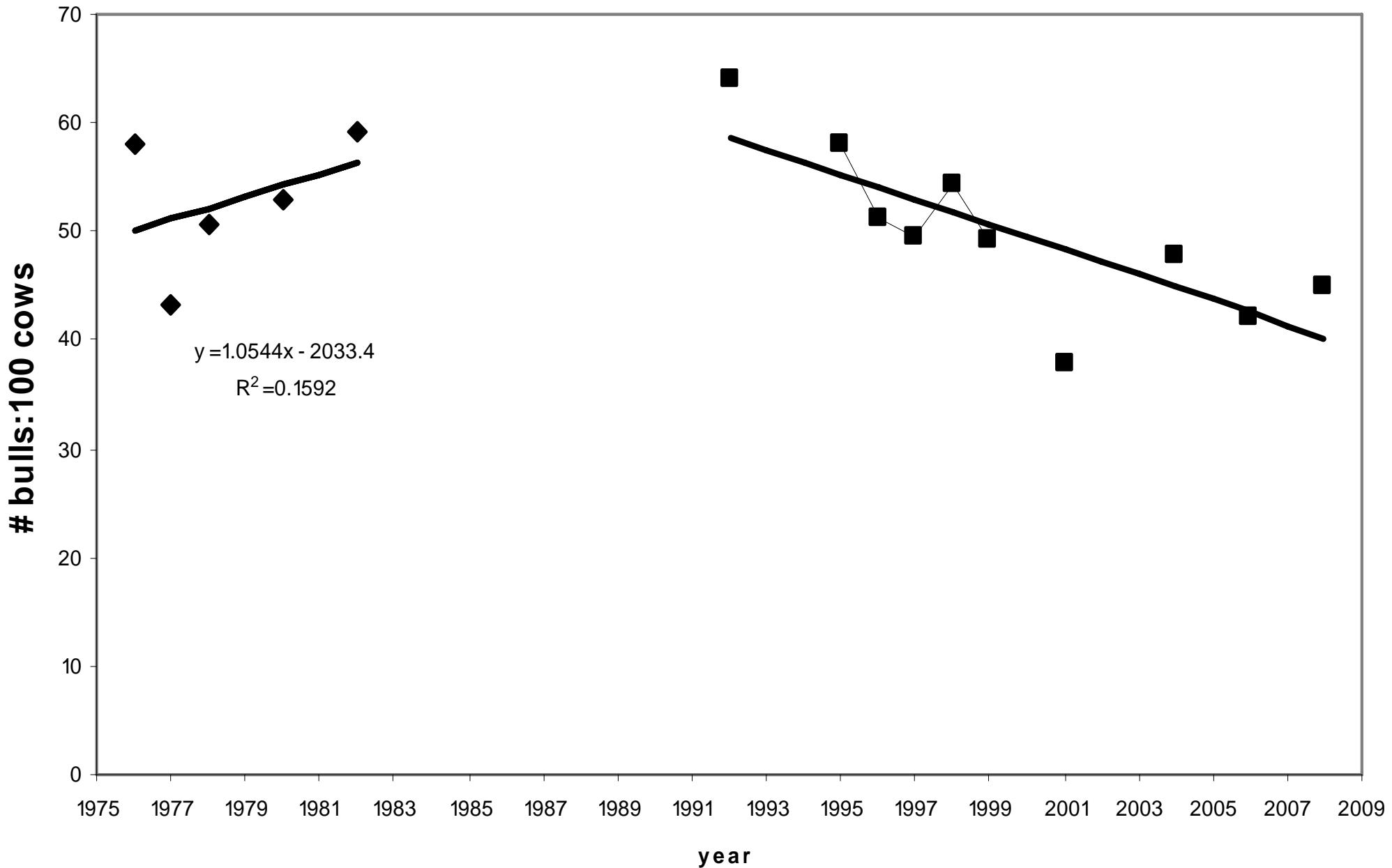


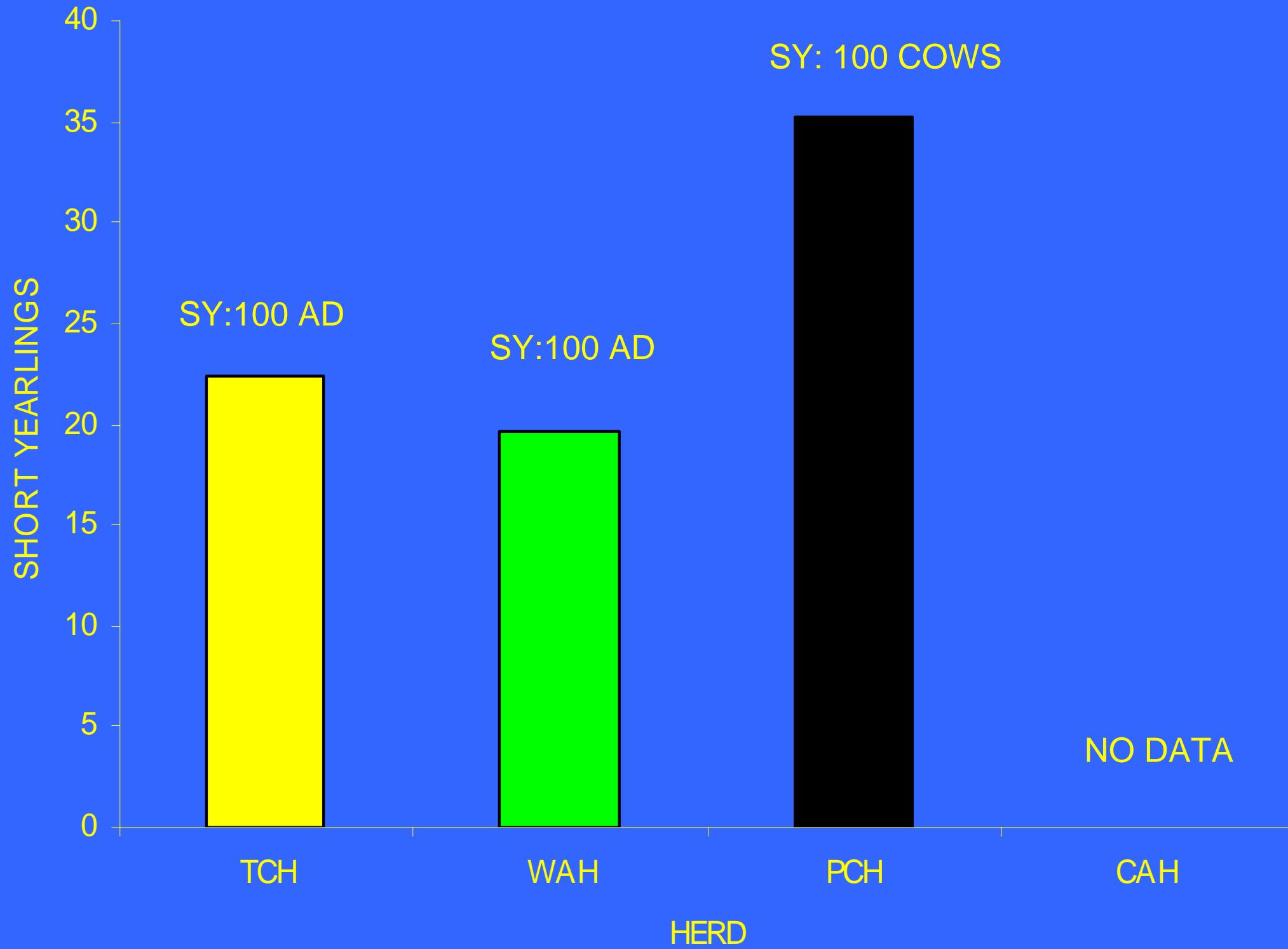
PARTURITION RATE





WAH Fall Bull:Cow Ratios: 1976-1982 & 1991-2008





SHORT YEARLING: 100 (ADULTS/COW)

40
35
30
25
20
15
10
5
0

TCH (ADULTS)

WAH
(ADULTS)

WAH (COWS)

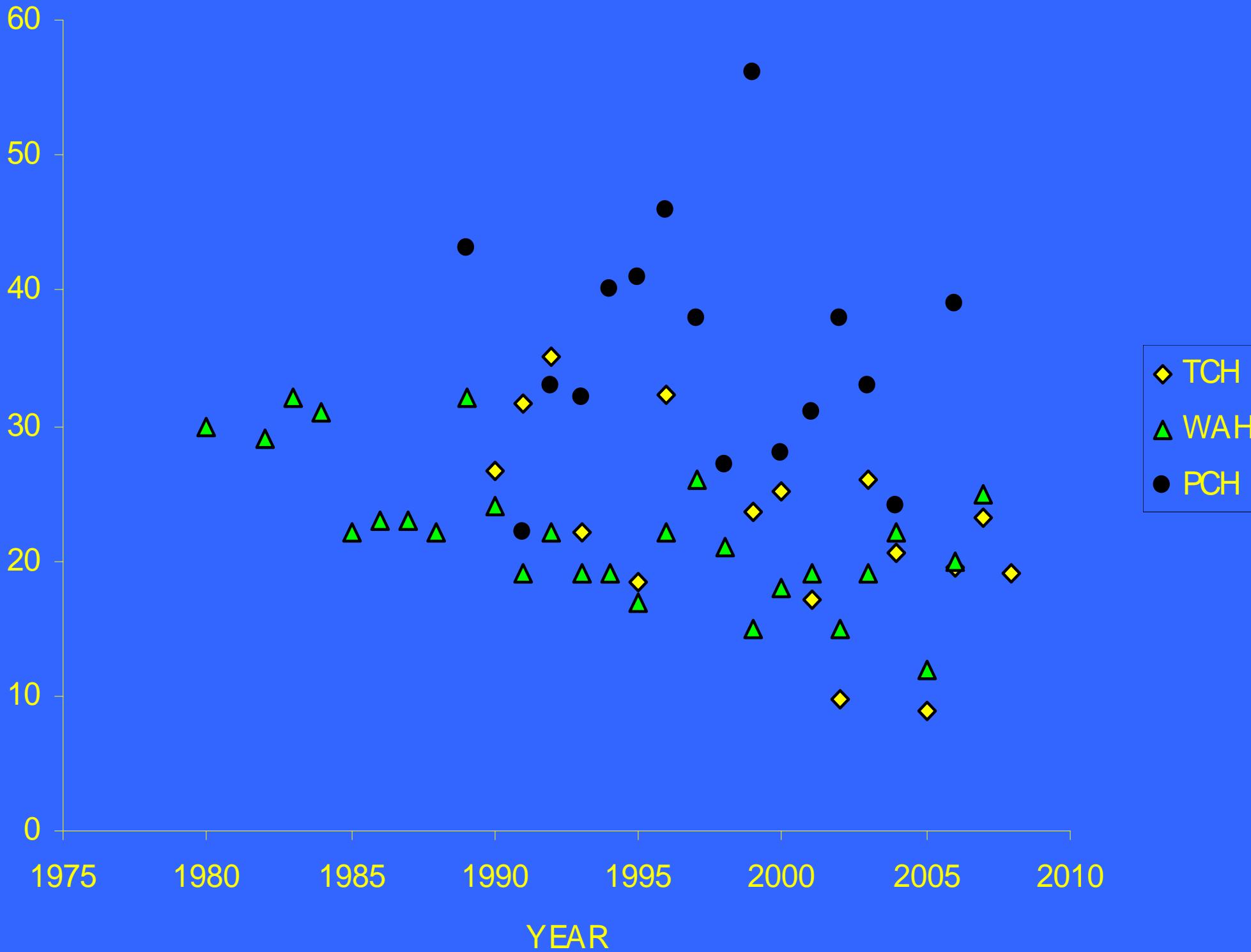
PCH (COWS)

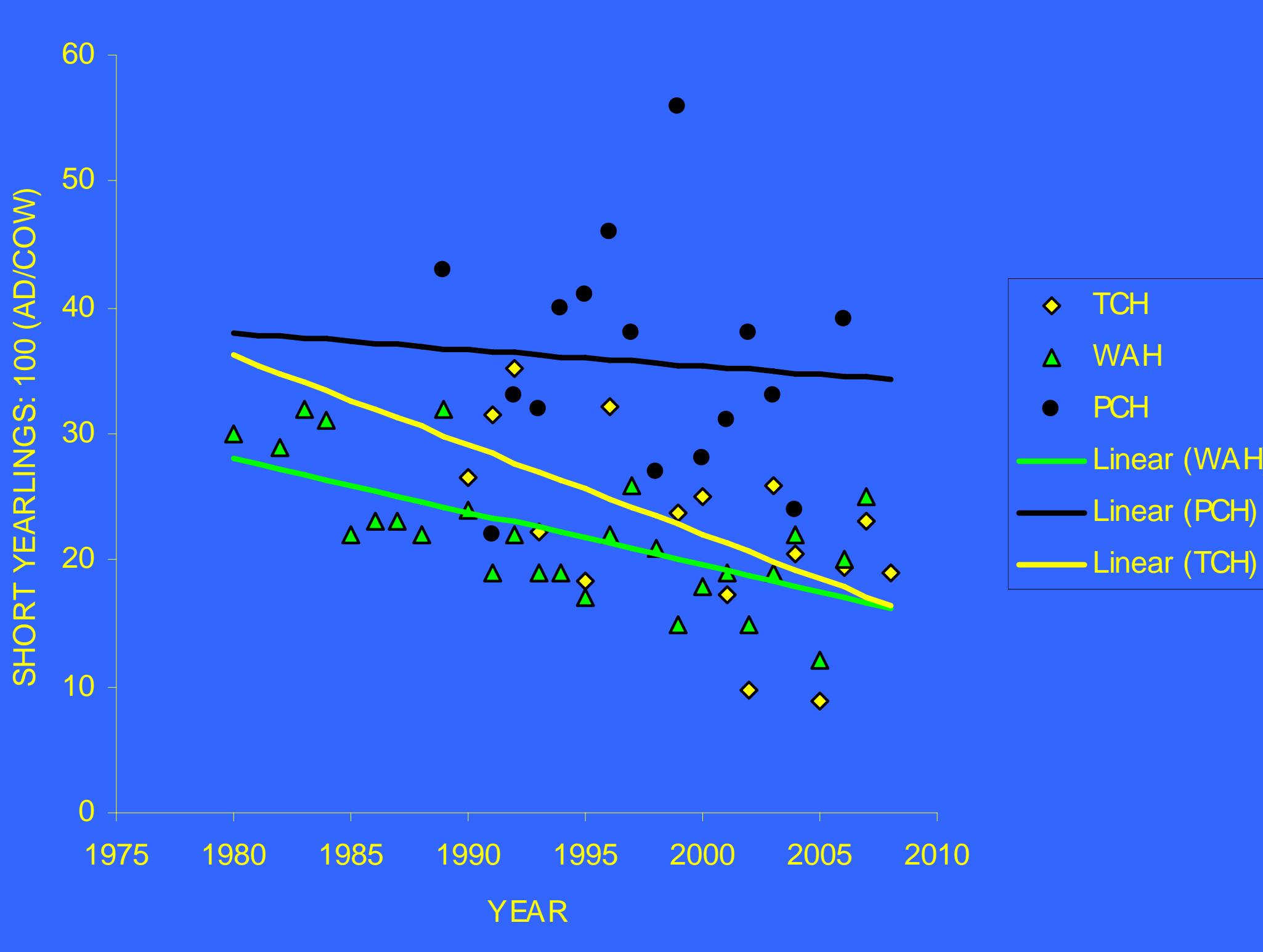
HERD

- TCH (ADULTS)
- WAH (ADULTS)
- WAH (COWS)
- PCH (COWS)

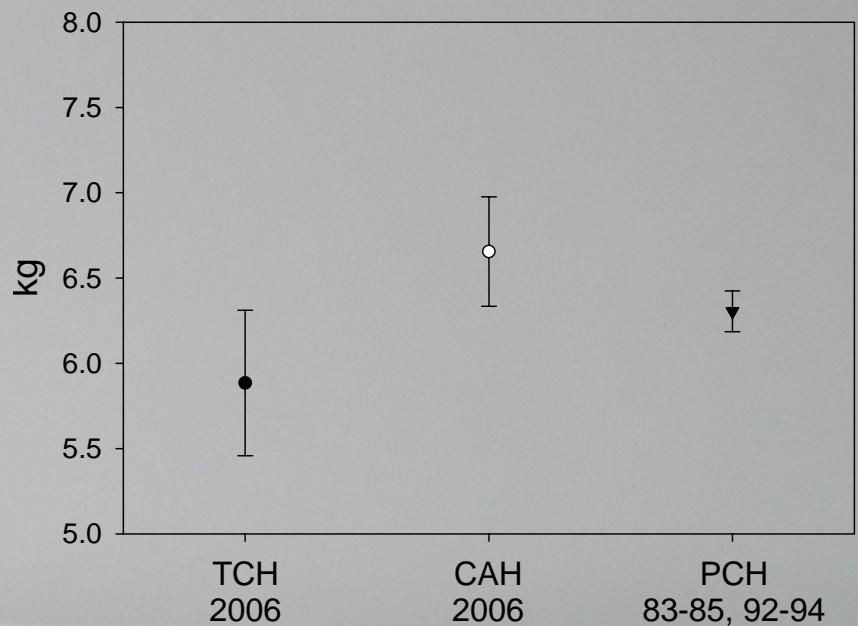


SHORT YEARLING: 100 (AD/COW)





North Slope Calf Weights



Other capture data, including live weights:

- PCH spring
- TCH summer (stable, adult female mean = 84 kg , 13 mo. female mean = 55 kg)
- WAH fall calf weights (smaller than rest of Alaska, but stable?)
- CAH (sporadic spring, summer, and fall, including adult and calf weights)





Health Assessments
-Western Arctic
-Mulchatna
-NAP
- TCH – July '09

Important pieces of missing data

- Calf survival: missing for WAH and TCH
- Radio collared calf data for PCH and CAH only cover short time periods
- June 21 survival based on presence of calf with radio-marked cow
(PCH and WAH only)
- long term vegetation plots (WAH winter and PCH summer)

