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To: [Dan Thompson](#); [Dan Bjornlie](#); [Servheen, Chris](#); [Kevin Frey](#); [Shoemaker, Rebecca](#); [Bryan Aber](#); [Daryl Meints](#); [Pat Hnilicka](#)
Subject: GYE population status update
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All,

Below is a GYE population status update based on 2014 data that Mark prepared. These are still preliminary results so please do not share outside your agencies.

GYE-wide results as of 9/18/2014

Preliminary 2014 FCOY count for GYE is 50 unique females with COY from 119 verified observations. Excluding biased sightings (i.e., obtained with telemetry) we have 46 unique females from 92 verified observation. Using sighting frequencies from these 46 FCOY yields a Chao2 estimate of 64. Model-average estimate for GYE = 62.

Population estimate for the GYE using and old rates and ratios = 655 (95% CI = 588-721). Independent age female N-hat = 276 (95% CI = 228-323); independent-aged male N-hat = 175 (95% CI = 135-215).

The 2014 mortality limits for independent-aged females within the GYE (CMA) = 25, estimated total mortality for independent-aged females as of 9/18 = 3.

The 2014 mortality limits for independent-aged males within the GYE (CMA) = 26, estimated total mortality for independent-aged males as of 9/18 = 14.

*NOTE: model weight for **GYE-wide results** has shifted and is now slightly greater for a linear model vs. a quadratic, somewhat indicative of growth picking back up or starting to fluctuate around a long-term mean. We should always be careful making too much of that based on 1 additional year of data but it's worth noting.*

DMA results as of 9/18/2014

Excluding those FCOY seen outside the Demographic Monitoring Area and excluding biased (i.e., obtained with telemetry) observations, we have 44 FCOY from 90 sightings within the DMA, which yields a Chao2 estimate of 59. Model average estimate for the DMA = 60.

Population estimate for the DMA using the 2002-2011 rates and ratios = 757 (95% CI = 674-839).

Independent age female N-hat = 263 (95% CI = 210-317); independent-aged male N-hat = 263 (95% CI = 205-321).

The 2014 mortality limits for independent-aged females within the DMA = 20, estimated total mortality for independent-aged females as of 9/18 = 3.

The 2014 mortality limits for independent-aged males within the DMA = 39, estimated total mortality for independent-aged males as of 9/18 = 11.

Thanks for everyone's contributions to these data, and thanks to Mark for getting it ready early!

Have a good weekend!

Frank

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