

From: [Heller, Matthew](#)
To: [Lineback, Pat](#)
Cc: [Lindstrom, James](#); [Rich Young](#); [Kevin Doherty](#); [Lara Juliusson](#); [Sean Finn](#)
Subject: Re: Range Wide Projection Suggestions
Date: Monday, May 19, 2014 10:31:04 AM

Regarding Pat's questions,

I like the idea of stating "preference" or "recommendation". North American Albers NAD83 as a general recommendation sounds good to me. Should we go as far as a central meridian suggestion (e.g. 105 deg. W) or is that overkill? I agree NAD27 is something to discourage, it can be handled in ArcGIS but can trip a lot of users up. The last NAD 27 data I came across was Little's data

(<http://esp.cr.usgs.gov/data/little/>) (http://esp.cr.usgs.gov/data/little/vegmaps_met.shtml) when checking into big sagebrush range. Hopefully NAD 27 is only isolated to some old base layer data. I'm guessing finer scale datasets, from data providers, may originally be in UTM NAD83 and broader scale datasets will be Albers NAD83.

I think it would be good to add in Pat's web service delivery sentence.

M.

On Wed, May 14, 2014 at 9:59 AM, Lineback, Pat <pat_lineback@fws.gov> wrote:

It seems reasonable to state a "preference" or "recommendation", but perhaps not hold people to it because there might be some uncertainty on some of the outputs being produced? So Albers NAD83 could be strawman?? NAD 27 is something to discourage as I'm guessing there might be transformation issues between datums inside of ArcGIS? Probably, not significant, but wondering why someone would use an older datum?

If uploading to science base, to optimize for any web services delivery (REST, WMS), the best is web mercator auxiliary sphere. Should we address that?

On Wed, May 14, 2014 at 6:48 AM, Lindstrom, James <james_lindstrom@fws.gov> wrote:

A question for the group, and follow up to some of yesterday's discussion. Are there any suggested projections for range wide mapping work for Greater Sage-Grouse? I've done work using NAD 1983 Albers and I've received some data set to NAD 1927 Albers. Are there preferences? Other projections better suited for this type of mapping/analysis work?

Thanks,
Jim

Jim Lindstrom
james_lindstrom@fws.gov
Cartographer

U.S. Fish & Wildlife Service
Wyoming Ecological Services Field Office
(307) 772-2374 (Ext 240)

--

Pat Lineback
Regional GIS Coordinator
U.S. Fish and Wildlife Service, Department of Interior
2800 Cottage Way, Room W-2606
Sacramento, CA 95825
Ph: 916-414-6559
Cell: 916-765-3755
E-mail: pat_lineback@fws.gov

--

Matt Heller

Data Manager/GIS Administrator/Cartographer, USFWS
Great Northern Landscape Conservation Cooperative
2327 University Way, Suite 2
Bozeman, MT 59715

Phone: 406-994-7333
Matthew_Heller@fws.gov
greatnorthernlcc.org