

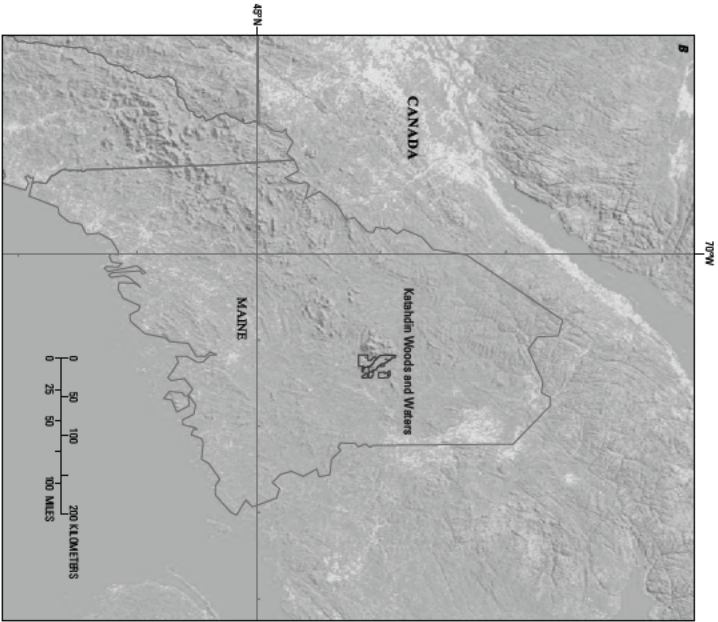
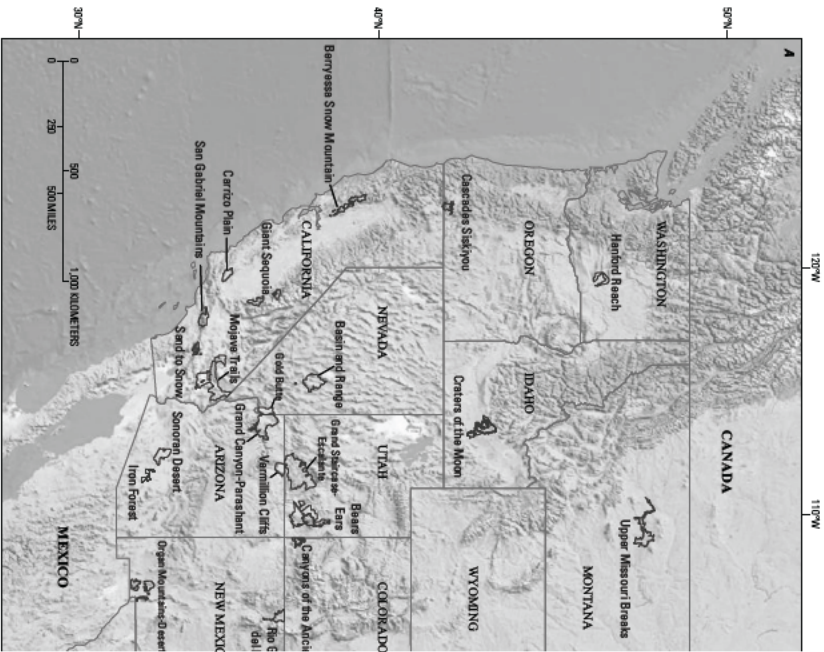
**To:** Benjamin Simon[benjamin\_simon@ios.doi.gov]; Judy Nowakowski[jnowakowski@usgs.gov]; Applegate, David[applegate@usgs.gov]  
**From:** Hitzman, Murray  
**Sent:** 2017-05-16T18:03:42-04:00  
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[monuments doc.docx](#)  
[Monuments - USGS energy and minerals annotations 5-16-17.xlsx](#)  
[USGS NationalMonument RapidAnalysis May2017 \(1\).pdf](#)

Ben  
please see the attached memo, table, and map. I hope this will help you with your analysis.  
best  
murray

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National Monuments in both the western United States (A) and the eastern United States—Maine (B) that were the subject of rapid analysis of existing data undertaken by the USGS, May 2017.

TO: Benjamin Simon, Office of Policy Analysis, DOI  
FROM: Murray Hitzman, Associate Director – Energy & Minerals, USGS  
SUBJECT: Office of the Secretary Executive Order 13792  
DATE: May 16, 2017

EO 13792 (April 26, 2017) directed the Department of the Interior (DOI) to provide initial analysis of specified National Monuments within 45 days (June 2017) with final analysis and recommendations due within 120 days (August 2017). Attached we provide rapid input to your May 11 request for information on energy and mineral resources within the named National Monuments; our input is restricted to the onshore monuments. The data are tabulated on the attached table.

For energy resources we considered oil and gas (conventional and unconventional), coal, gas hydrates, geothermal, and uranium. We cite the most recently available energy assessments conducted by the USGS. In several cases we also cite Bureau of Land Management (BLM) Records of Decision (Carizzo Plain and Upper Missouri River Breaks). Monuments within areas of USGS energy assessments or those with known energy production are marked as red on the table. Monuments that are located adjacent to areas that include USGS energy assessments are marked in yellow. **It is very important to note that it is not scientifically valid to statistically assign energy resource numbers in an assessment unit to a specific area within a monument or portion thereof.**

Mineral resources include a wide variety of mineral commodities which are not specified on the table but are identified in the references cited. The status of historical mining within a National Monument was addressed from review of the USGS Mineral Resource Data System (MRDS) data, USGS reports, and relevant State Geological Survey mineral resource reports. Several of the monuments contain BLM Wilderness Study Areas and USFS Roadless Areas, some of which were assessed for mineral potential by the USGS in the past. The monuments that contain areas that were assessed by the USGS are noted as “Part of area assessed” and those Monuments covered by a USGS mineral assessment report are indicated as “Area assessed”. Relevant USGS mineral resource assessment, BLM Wilderness Study Area, and U.S. Forest Service (USFS) Roadless Area reports covering all or portions of the Monuments are listed in the table. Monuments with reports indicating they contain mineral potential are marked in red. **It is very important to note that it is not scientifically valid to assign specific mineral resource numbers from these reports to a monument or specific areas within a monument.**