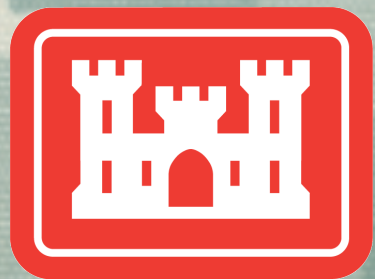
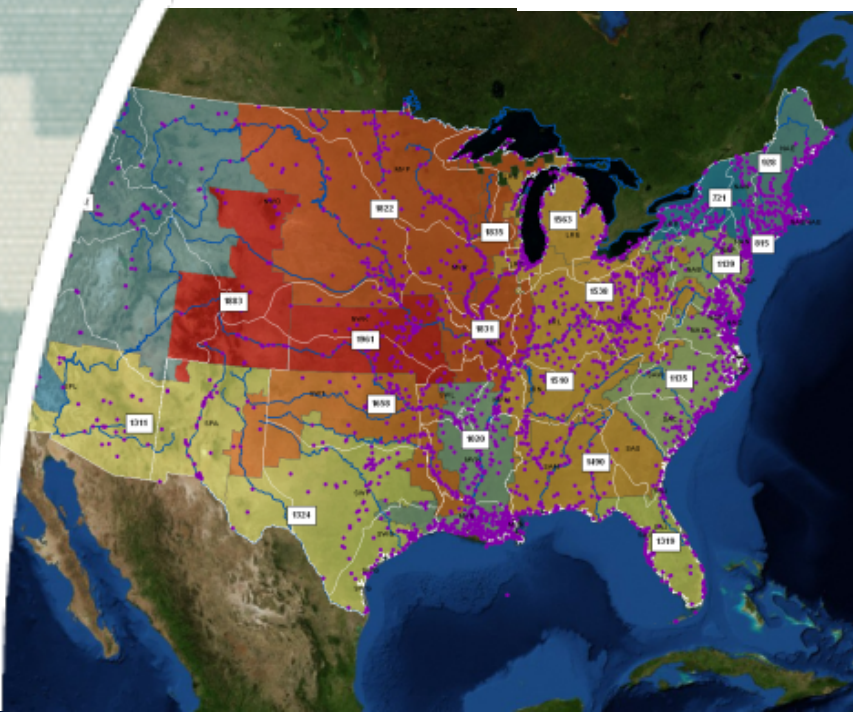
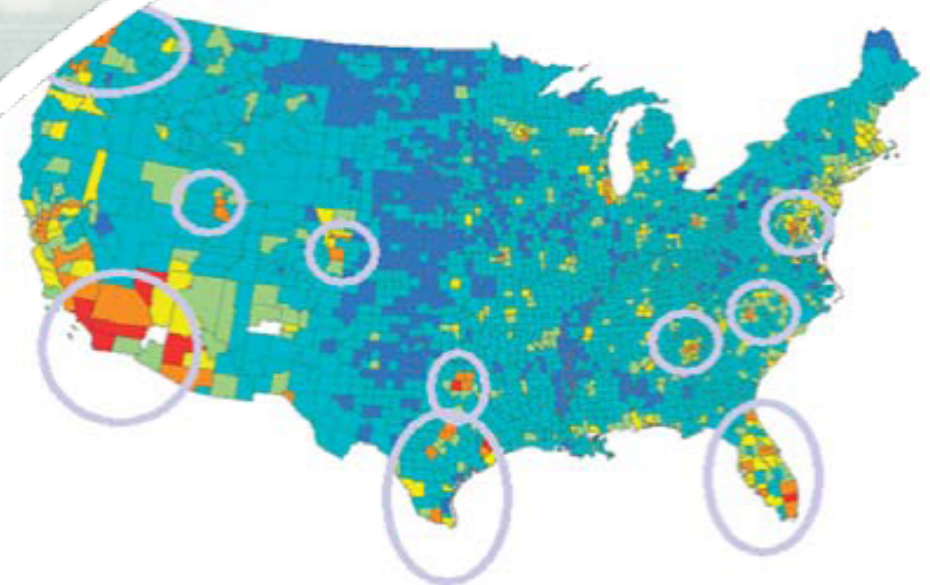


U.S. Army Corps of Engineers applications in support of hourly to weekly river regulation

30 July 2013

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Institute for Water Resources*



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US Army Corps of Engineers
BUILDING STRONG®

Identifying Draft Needs

Needs grouped under four themes:

- Monitoring
- Forecasting
- Understanding on Product Relationships and Utilization in Water Management
- Information Services Enterprise

User Needs: Monitoring

General

M1 **Sustained support** for monitoring networks that provide observations of weather and hydrologic conditions.

Precipitation

M2 **Expanded networks** of weather stations in water management regions that are currently served by relatively low station density.

Snowpack

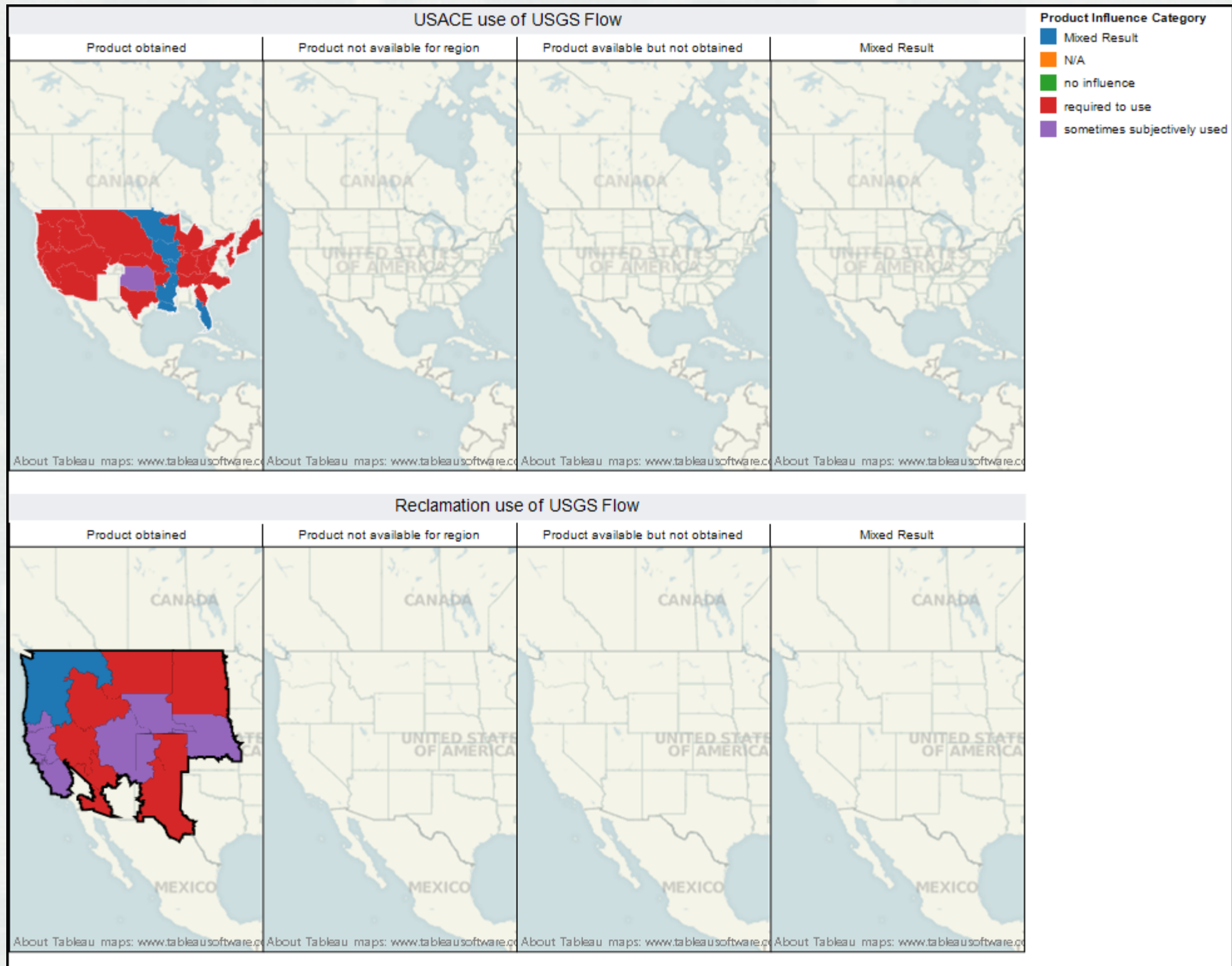
M3 More **interactive snow analysis products** characterizing basin-distributed snow-covered area and snow-water equivalent

M4 **Expanded networks** of snow-observing stations in the Central and Eastern United States.

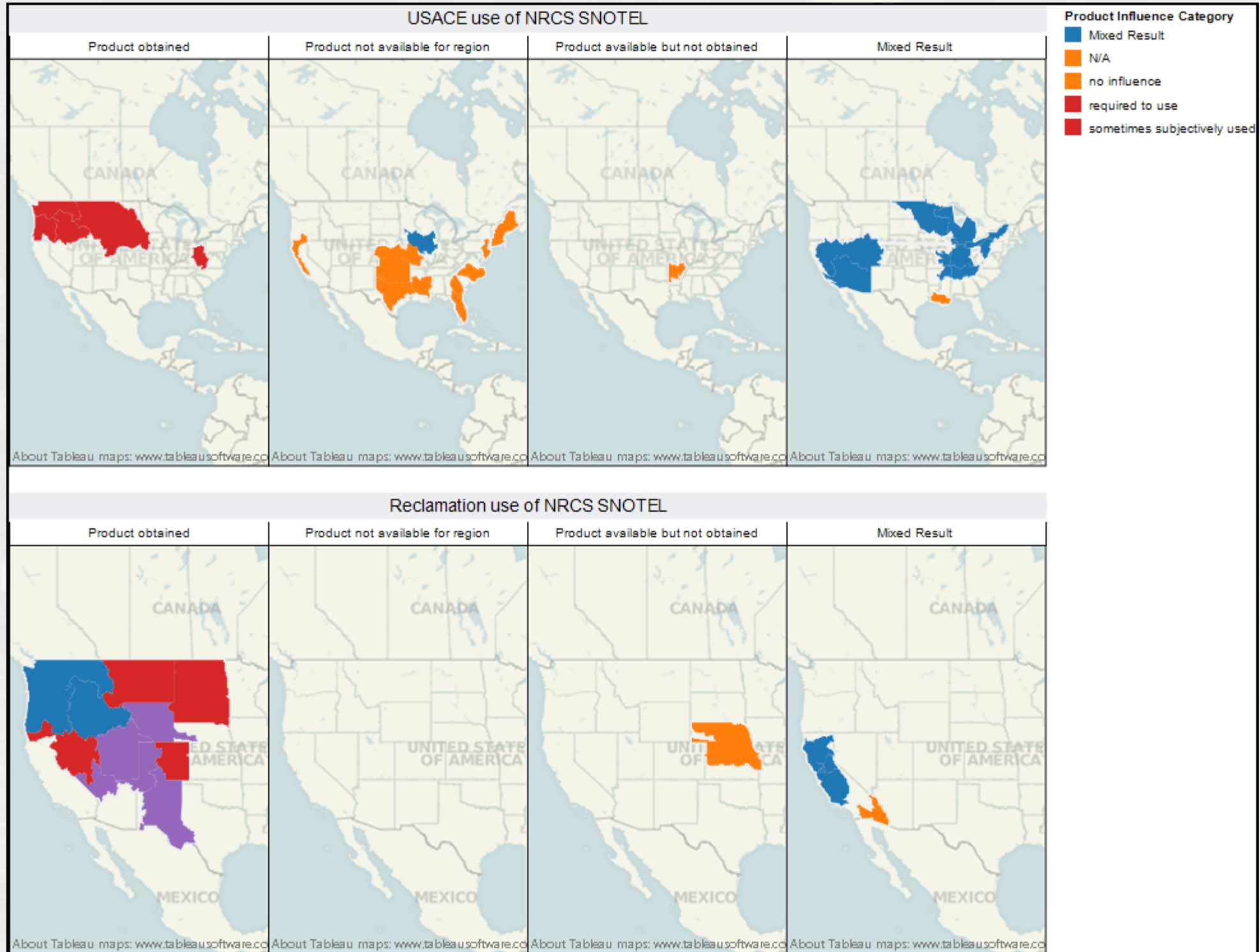
Streamflow

M5 Preserving and expanding networks of streamflow observations with a **focus on streams and rivers that are currently ungauged**.

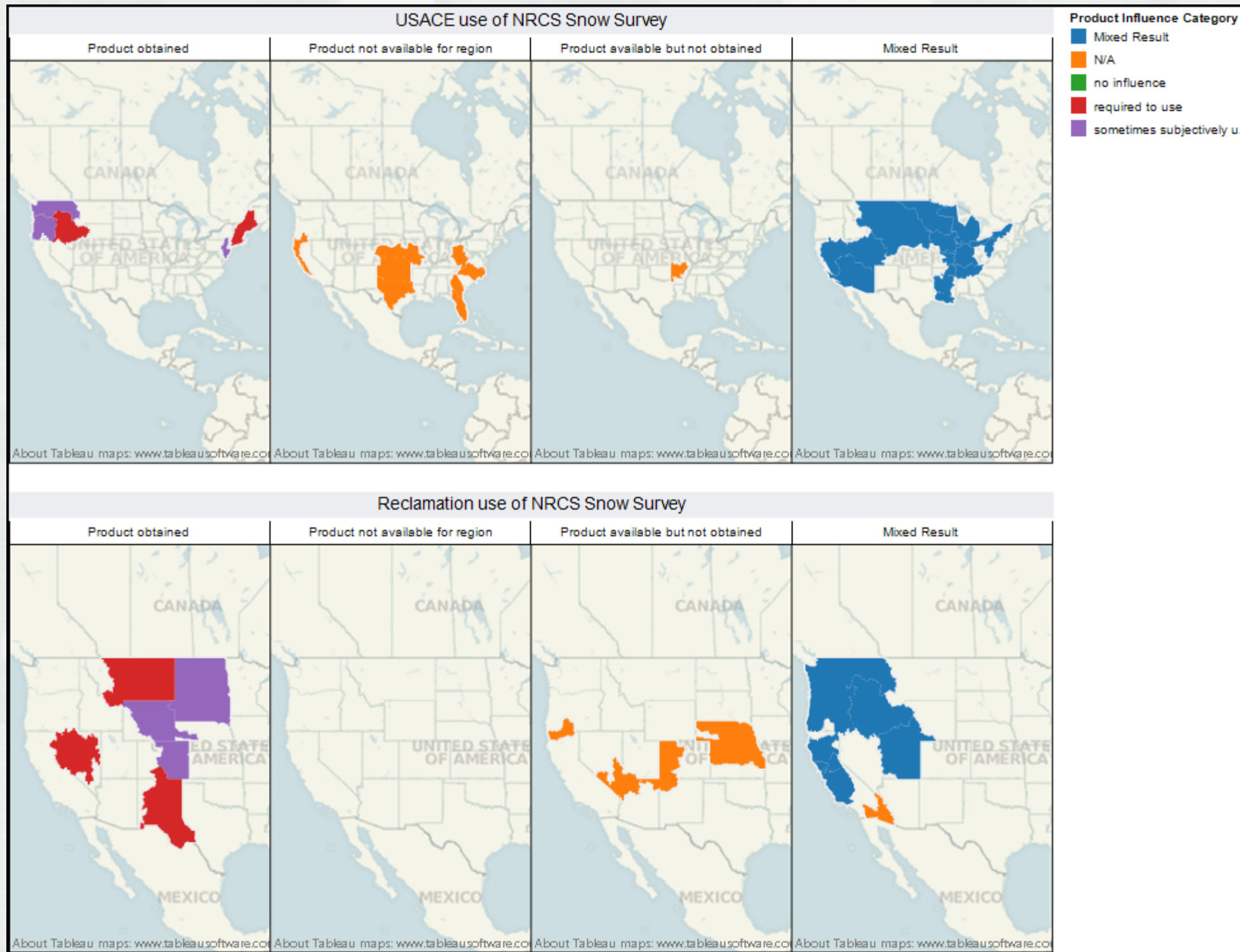
USGS Gage Data



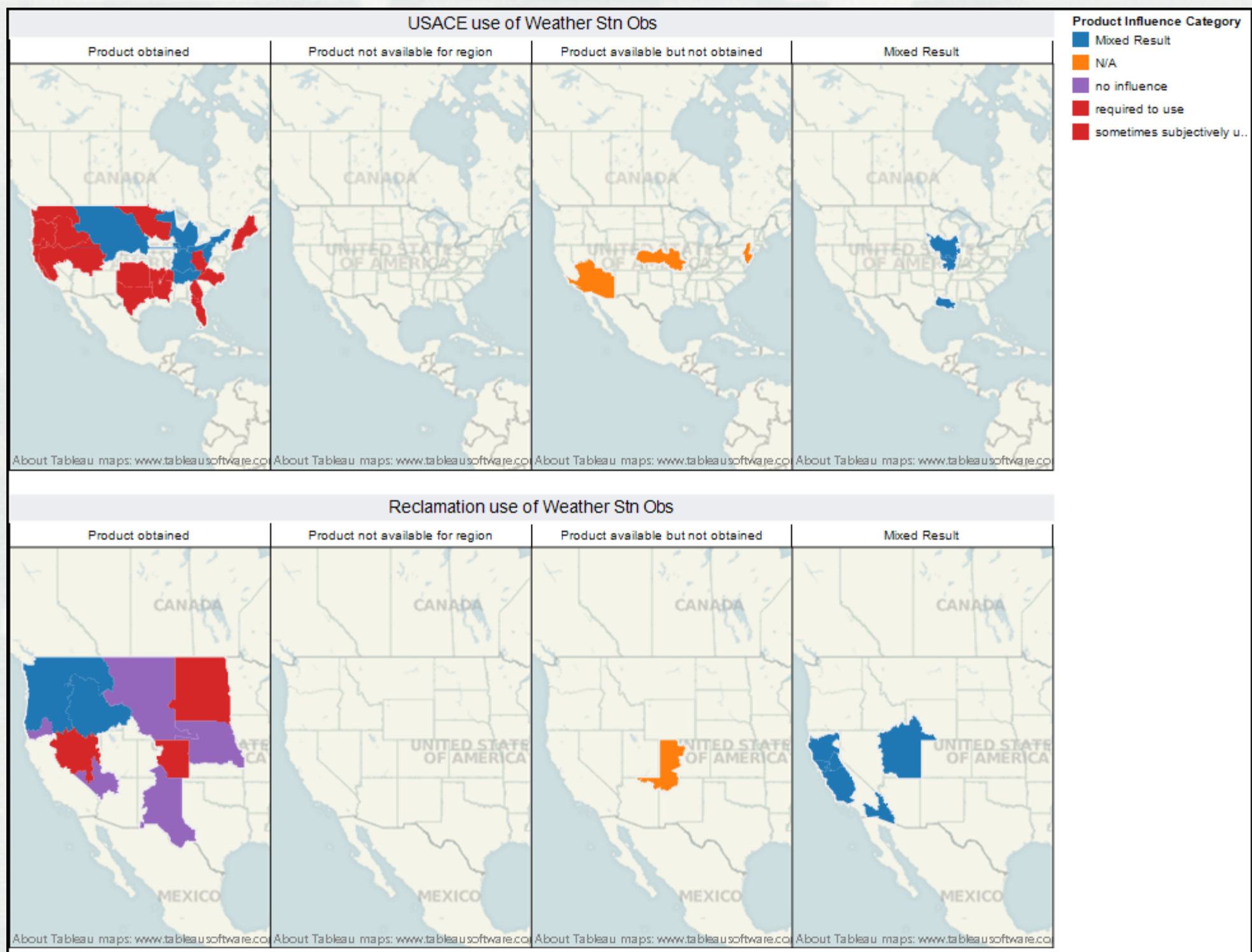
NRCS SNOTEL



NRCS NWCC Snow Course



NWS COOP



NWS RFC/CPC

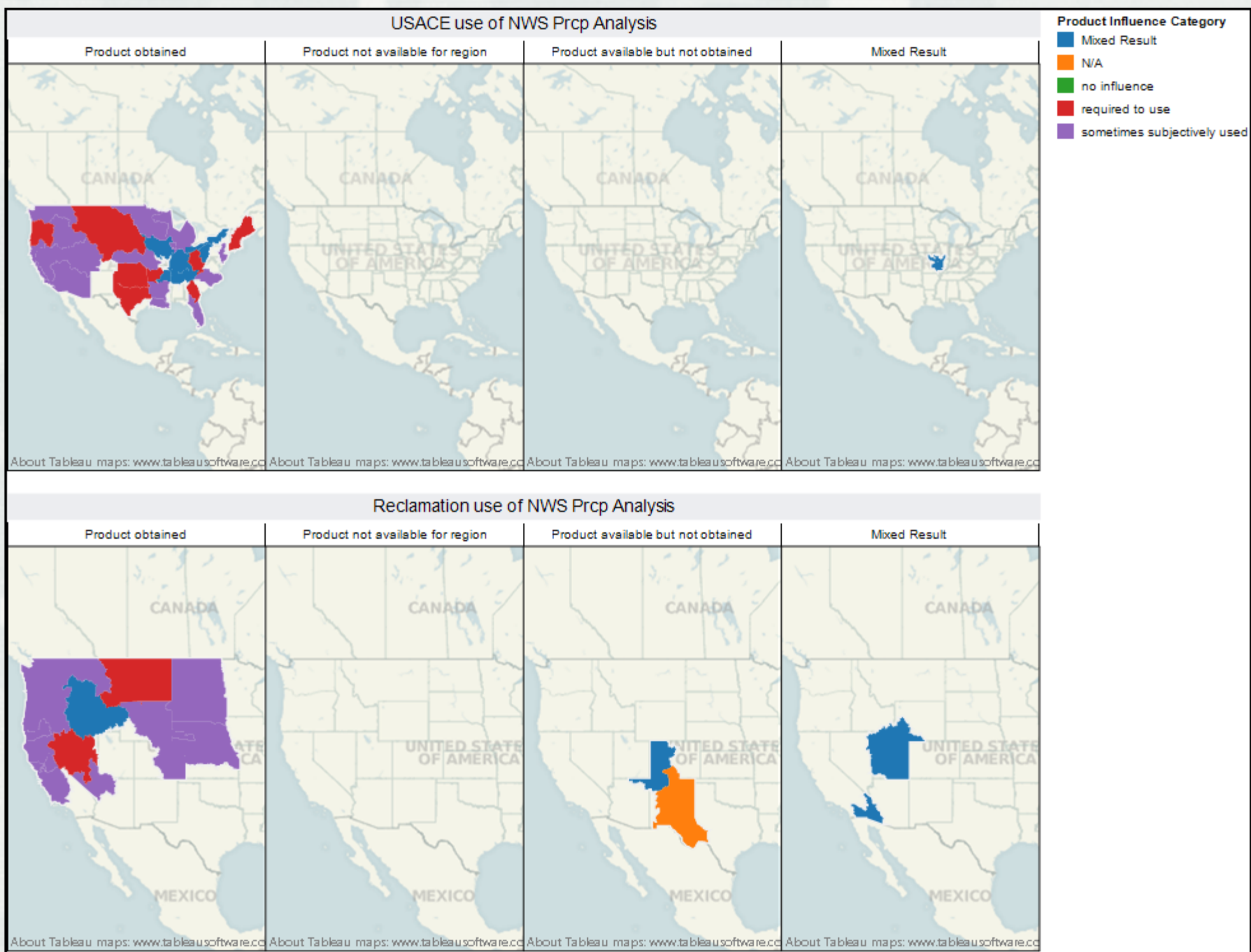


Table 5. Summary of priority rankings based on survey responses.

Subcategory	Label	Needs statement	How would you rank the priority of addressing this need, relative to the other needs?		
			Low	Medium	High
Category: Monitoring					
General	M1	Sustained support for monitoring networks that provide observations of weather and hydrologic conditions.	0%	0%	100%
Precipitation	M2	Expanded networks of weather stations in water management regions that are currently served by relatively low station density.	11%	33%	56%
Snowpack	M3	More interactive snow analysis products characterizing basin-distributed snow-covered area and SWE.	11%	33%	56%
	M4	Expanded networks of snow-observing stations in the Central and Eastern United States.	29%	29%	43%
Streamflow	M5	Preserving and expanding networks of streamflow observations with a focus on streams and rivers that are currently ungauged.	11%	11%	78%

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Thank You

Questions

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