07 June 2018 SCAP Vulnerability Assessment - Identifying climate and non-climate stressors to:
Water Use & Demand

CLIMATE VARIABLES	Ag water use	Ag water demand	Recreation water use	Recreation water demand	M&I water use	M&I water demand
Precipitation timing (Change in wet/dry cycle)						
Water temperature change (streams/lakes)						
Water temperature change timing (steams/lakes)						
Storm Frequency						
Storm Severity						
Fire frequency						
Fire intensity						
Fire season length						
River flow rate						
Chilling hours						
Heat extremes/waves						
Increase in mean summer temperature						
Increase in mean cool-season temperature						
Increase in length of growing season						
Increase in growing degree days						
Increase in mean evapotranspiration						
Change in summer soil moisture						
Change in mean summer precipitation						
Change in mean winter precipitation						
NON CLIMATE VARIABLES						
demographic shifts						
population changes						
climate refugees						
water usage						
change in recreational interests						
workforce						
urban sprawl						
Education and awareness						
consumer pref/demand						
business/industry growth						
socioeconomic impact						
crop prices						
market forces						
fuel costs						
energy costs						
trade policy						
forest management						
exempt wells						
summer urban water use/soil depth						
cheap water						
court decisions						
nutrient loading						
invasive species						
growing Ag/chemicals						
groundwater levels						
CO2 levels						

07 June 2018 SCAP Vulnerability Assessment - Identifying climate and non-climate stressors to:
Natural Disasters

CLIMATE VARIABLES	**Fire**	**Drought**	**Flood**
Precipitation timing (Change in wet/dry cycle)			
Water temperature change (streams/lakes)			
Water temperature change timing (steams/lakes)			
Storm Frequency			
Storm Severity			
Fire frequency			
Fire intensity			
Fire season length			
River flow rate			
Chilling hours			
Heat extremes/waves			
Increase in mean summer temperature			
Increase in mean cool-season temperature			
Increase in length of growing season			
Increase in growing degree days			
Increase in mean evapotranspiration			
Change in summer soil moisture			
Change in mean summer precipitation			
Change in mean winter precipitation			
NON CLIMATE VARIABLES			
demographic shifts			
population changes			
climate refugees			
water usage			
change in recreational interests			
workforce			
urban sprawl			
Education and awareness			
consumer pref/demand			
business/industry growth			
socioeconomic impact			
crop prices			
market forces			
fuel costs			
energy costs			
trade policy			
forest management			
exempt wells			
summer urban water use/soil depth			
cheap water			
court decisions			
nutrient loading			
invasive species			
growing Ag/chemicals			
groundwater levels			
CO2 levels			

07 June 2018 SCAP Vulnerability Assessment - Identifying climate and non-climate stressors to:
Regulations

CLIMATE VARIABLES	Transboundary Constraints	Out of basin transfer	Upstream Activities in Idaho Impact Spokane Water Supply
Precipitation timing (Change in wet/dry cycle)			
Water temperature change (streams/lakes)			
Water temperature change timing (steams/lakes)			
Storm Frequency			
Storm Severity			
Fire frequency			
Fire intensity			
Fire season length			
River flow rate			
Chilling hours			
Heat extremes/waves			
Increase in mean summer temperature			
Increase in mean cool-season temperature			
Increase in length of growing season			
Increase in growing degree days			
Increase in mean evapotranspiration			
Change in summer soil moisture			
Change in mean summer precipitation			
Change in mean winter precipitation			
NON CLIMATE VARIABLES			
demographic shifts			
population changes			
climate refugees			
water usage			
change in recreational interests			
workforce			
urban sprawl			
Education and awareness			
consumer pref/demand			
business/industry growth			
socioeconomic impact			
crop prices			
market forces			
fuel costs			
energy costs			
trade policy			
forest management			
exempt wells			
summer urban water use/soil depth			
cheap water			
court decisions			
nutrient loading			
invasive species			
growing Ag/chemicals			
groundwater levels			
CO2 levels			

07 June 2018 SCAP Vulnerability Assessment - Identifying climate and non-climate stressors to:
Human Health

CLIMATE VARIABLES	**Fire/smoke**	**Water quality**
Precipitation timing (Change in wet/dry cycle)		
Water temperature change (streams/lakes)		
Water temperature change timing (steams/lakes)		
Storm Frequency		
Storm Severity		
Fire frequency		
Fire intensity		
Fire season length		
River flow rate		
Chilling hours		
Heat extremes/waves		
Increase in mean summer temperature		
Increase in mean cool-season temperature		
Increase in length of growing season		
Increase in growing degree days		
Increase in mean evapotranspiration		
Change in summer soil moisture		
Change in mean summer precipitation		
Change in mean winter precipitation		
NON CLIMATE VARIABLES		
demographic shifts		
population changes		
climate refugees		
water usage		
change in recreational interests		
workforce		
urban sprawl		
Education and awareness		
consumer pref/demand		
business/industry growth		
socioeconomic impact		
crop prices		
market forces		
fuel costs		
energy costs		
trade policy		
forest management		
exempt wells		
summer urban water use/soil depth		
cheap water		
court decisions		
nutrient loading		
invasive species		
growing Ag/chemicals		
groundwater levels		
CO2 levels		

07 June 2018 SCAP Vulnerability Assessment - Identifying climate and non-climate stressors to:
Well-being & Identity

CLIMATE VARIABLES	**Population changes**	**Lifestyle**	**Landuse change**
Precipitation timing (Change in wet/dry cycle)			
Water temperature change (streams/lakes)			
Water temperature change timing (steams/lakes)			
Storm Frequency			
Storm Severity			
Fire frequency			
Fire intensity			
Fire season length			
River flow rate			
Chilling hours			
Heat extremes/waves			
Increase in mean summer temperature			
Increase in mean cool-season temperature			
Increase in length of growing season			
Increase in growing degree days			
Increase in mean evapotranspiration			
Change in summer soil moisture			
Change in mean summer precipitation			
Change in mean winter precipitation			
NON CLIMATE VARIABLES			
demographic shifts			
population changes			
climate refugees			
water usage			
change in recreational interests			
workforce			
urban sprawl			
Education and awareness			
consumer pref/demand			
business/industry growth			
socioeconomic impact			
crop prices			
market forces			
fuel costs			
energy costs			
trade policy			
forest management			
exempt wells			
summer urban water use/soil depth			
cheap water			
court decisions			
nutrient loading			
invasive species			
growing Ag/chemicals			
groundwater levels			
CO2 levels			