

CAIT Step 1: Assess the Vulnerability of the Resource to Climate Change

To begin this first step, define the focal resource (for example, recreation opportunity or rangeland vegetation) and assess its vulnerability to climate and non-climate stressors. Regional climate change vulnerability assessments can be used to identify the key climate and non-climate factors that influence the resource. For example, key climate vulnerabilities for winter-based recreation may include amount, timing, and type of precipitation, while non-climate vulnerabilities include increased human populations and deferred or neglected maintenance. Document the key climate and non-climate stressors for a resource, including the data and information that you consulted.

Use the list of key climate and non-climate vulnerabilities to help guide the choice of spatial information and maps to assemble and map and use as aids in answering the Critical Questions in CAIT Step 2.

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CAIT Step 2: Answer Critical Questions

Use the results compiled in CAIT Step 1: assessment of climate change vulnerabilities, expert knowledge, and spatial data and maps, to answer the Critical Questions for three planning considerations: future climatic suitability, value, and current condition. It is important to define a reference point⁶ prior to answering Critical Questions for current condition, as these Critical Questions are intended to help you evaluate how much a resource departs from a given point. When considering Critical Questions regarding value, maps of value determined for multiple sites can put individual sites into the context of regional conditions so assessments of high, medium or low value are consistent. Consider and document your answers to the questions, including the data and information that you consulted and how it influenced your answers. Based on your responses to the Critical Questions, select the overall summary determination for each planning consideration.

Once summary determinations in the form of a three-letter code have been selected for each of the three planning considerations, go to CAIT Step 3.



CAIT Step 3: Select Management Approach

Use the three-letter code summary determination made in CAIT Step 2 to locate the corresponding management approach matrix cell. Each cell in the matrix lists at least one management approach that reflects the summary determinations for climate suitability, value, and current condition. Management approaches include resistance, resilience, transition, realignment, and no action (box 3). Select the approach that best suits the given situation for your resource. Consider approaches to implement in the near- or short-term (that is, resistance, resilience) as well as those more suitable in the long-term (that is, transition, realignment). Once the preferred management approach has been selected, move on to CAIT Step 4.



CAIT Step 4: Select Adaptation Strategies and Actions to Implement Preferred Management Approach

Use the preferred management approach selected in CAIT Step 3 to locate the associated adaptation strategies and actions in the CAIT Step 4 reference table. Adaptation strategies may be most appropriately integrated into plans and programs, while adaptation actions may be most applicable to on-the-ground projects. Adaptation actions can also be integrated into the Potential Management Approaches section of a forest plan.

⁶For example, historical range of variation assessments provide baseline information on ecosystem conditions (composition, structure, and function) that can be compared to current conditions.