

## Outcome #8: Recognize, Interpret and Evaluate Resource Problems and Opportunities Across Scales

	Exemplary	Competent	Emerging	Undeveloped
<b>Recognize resource problems/opportunities across scales</b>	Clearly identifies resource problems and opportunities and appropriate scale(s) at which they do or could occur. Identifies effect of scale on problem/opportunity, envisions and explains how problems and opportunities may span multiple scales. Intentionally considers different scales and linkages among them from local (single ownership) to global for both ecological and social dimensions.	Recognizes resource problems and opportunities and identifies scale(s) at which they occur. Provides evidence of understanding how problems or opportunities may span multiple scales. Considers linkages among scales when examining resource problems and opportunities, as well as ecological and social dimensions of problems and opportunities.	Recognizes resource problems or opportunities at individual scales but has difficulty envisioning cross-scale effects or linkages. Provides some evidence of understanding how problems or opportunities may span scales. Focuses primarily on either ecological or social dimensions of problems.	Unable to recognize or explain impact of scale on resource problems and opportunities. Provides only limited evidence of understanding how problems may cross scales. Demonstrates only limited knowledge of ecological and social dimensions of problems.
<b>Interprets resource problems/opportunities across scales</b>	Clearly articulates nature and significance of resource problems and opportunities at multiple scales and across scales where they do or could occur. Can explain patterns, processes and linkages among scales from local to global, and for audiences ranging from individual landowners to large-scale land managers.	Correctly interprets resource problems and opportunities and scale(s) at which they most frequently occur. Can identify patterns, processes and linkages among multiple scales. Can describe appropriate applications spanning local to global scales.	Able to interpret resource problems or opportunities, but does not demonstrate clear understanding of scale effects. Can identify some patterns or processes that are linked across scales.	Unable to interpret resource problems or opportunities, or unable to include consideration of effects of scale. Limited understanding of patterns or processes. Does not consider linkages across scales.
<b>Evaluates resource problems/opportunities across scales</b>	Complete and logical analysis of resource problems and opportunities that incorporates specific consideration of scale(s). Identifies scale-dependent features. Offers appropriate descriptions, comparisons, and contrasts that link to and span appropriate scale(s) for social and ecological dimensions.	Clear and mostly logical analysis of resource problems and opportunities and relationship to scale(s). Identifies scale-dependent features. Offers some comparisons or contrasts that link to or span appropriate scales.	Some analysis of resource problems, but either unclear or not logical. Insufficient identification of scale-dependent dimensions of problems/opportunities. Offers few comparisons or contrasts that link to or span scales.	Little or no analysis of resource problems evident. Little or no identification of scale-dependent dimensions. Does not offer comparisons or contrasts among scale-dependent elements.

Prepared by members of the Natural Resource Ecology and Management Department Outcomes Assessment Committee (Iowa State University), 2011.