

# Arkansas Checklist of Resource Concerns

## CROP

<b>CLIENT</b>	<b>LOCATION</b>
<b>PLANNER</b>	<b>DATE</b>
<b>LAND UNITS</b>	<b>Required:</b>

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria outlined in Section III of the FOTG sets the minimum level of treatment needed to sustain the resource and will be used when developing alternative solutions. The gray boxes indicate the resource concerns that are required. If a screening question is TRUE, this indicates no resource concern exists and no assessment is required. If a screening question is FALSE, the assessment must be completed to evaluate if there is a resource concern. If the Assessment is TRUE, Planning Criteria is met. If the Assessment is FALSE, the Planning Criteria is not met and a Resource Concern exists.

Resource Concern  * required response	Screening Questions  True = Stop, Meets Screening False = Go to Assessment	TRUE FALSE	Assessment Tools	Assessment Level Required to Meet Planning Criteria  True = Meets Planning Criteria False = Resource Concern	TRUE FALSE
<b>SOILS RESOURCES</b>					
<b>SOIL EROSION: Sheet, rill and wind *</b>	Permanent ground cover > 90% and slope < 10%		<ul style="list-style-type: none"> <li>➤ RUSLE2</li> <li>➤ WEPS</li> </ul>	Water erosion rate ≤ T AND Wind erosion rate ≤ T.	
<b>SOIL EROSION: Concentrated flow erosion *</b>	Classic or ephemeral gullies are not present.		<ul style="list-style-type: none"> <li>➤ Field measurements</li> <li>➤ Planner observation</li> </ul>	Conservation practices and managements are in place to prevent or control ephemeral gullies <b>AND</b> Classic gully management is adequate to stop the progression of head cutting and widening and are offsite impacts are minimized by vegetation and/or structures	
<b>SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels</b>	Streams, shoreline or channels are not on or adjacent to site		<ul style="list-style-type: none"> <li>➤ Planner observation</li> <li>➤ SVAP2</li> </ul>	For shorelines and water conveyance channels; banks are stable or commensurate with normal geomorphological processes <b>AND</b> For streambanks; SVAP2 bank condition element score ≥ 5 ( <i>Banks are moderately stable, protected by roots or natural vegetation, wood, or rock or a combination of materials with little evidence of erosion or bank failures.</i> ) <b>OR</b> If bank erosion is present, it is beyond the client's control or commensurate with normal geomorphological processes	
<b>SOIL QUALITY: Subsidence</b>	<b>NOT A CONCERN IN ARKANSAS</b>				
<b>SOIL QUALITY: Compaction</b>	Soil compaction not a client identified resource concern. <b>AND</b> Activities that contribute to compaction problems not observed		<ul style="list-style-type: none"> <li>➤ Soil Quality Test Kit</li> <li>➤ Observation of soil and plant condition</li> <li>➤ Planner observation</li> </ul>	Compaction is managed to meet Client's production and management objectives	
<b>SOIL QUALITY: Organic matter depletion</b>	Permanent ground cover > 80%.		<ul style="list-style-type: none"> <li>➤ RUSLE2</li> </ul>	SCI > 0	
<b>SOIL QUALITY: Concentration of Salts or other chemicals</b>	Activities that cause salinity/sodicity problems are not observed.		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Conservation practices and managements are in place to mitigate on-site effects	

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<b>WATER RESOURCES</b>					
<b>EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow</b>	Excess water is not a client identified resource concern. <b>AND</b> Activities that contribute to excess water problems not observed.		<ul style="list-style-type: none"> <li>➤ Client Input</li> <li>➤ Planner observation</li> </ul>	Excess water is managed to meet Client's objectives	
<b>INSUFFICIENT WATER: Inefficient moisture management</b>	Inefficient moisture management is not a client identified resource concern. <b>AND</b> Activities that contribute to inefficient moisture management are not observed.		<ul style="list-style-type: none"> <li>➤ Planner Observations</li> </ul>	Runoff and evapotranspiration levels are minimized to meet Client's management objectives.	
<b>INSUFFICIENT WATER: Inefficient use of irrigation water *</b>	Land is not irrigated.		<ul style="list-style-type: none"> <li>➤ State identified measurement and assessment tools - Farm Irrigation Rating Index (FIRI), State Version</li> </ul>	The irrigation system components and management meet state specific efficiency criteria	
<b>WATER QUALITY: Excess nutrients in surface and groundwater</b>	Organic or inorganic nutrient sources are not applied. <b>AND</b> Land is not grazed <b>AND</b> There are no confined livestock areas.		<ul style="list-style-type: none"> <li>➤ Nutrient budget</li> <li>➤ Planner Observations</li> </ul>	Nutrients if applied, are based on a soil test, tissue tests or nutrient budget <b>AND</b> Conservation practices and managements are in place to minimize surface and groundwater impacts	
<b>WATER QUALITY: Pesticides transported to surface and groundwaters</b>	Pest control chemicals are not applied.		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ WinPST</li> </ul>	Pesticides are stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching. <b>AND</b> Appropriate mitigating conservation practices and managements are in place. <b>AND</b> Pesticides are applied according to label requirements.	
<b>WATER QUALITY: Excess pathogens and chemicals from manure, biosolids or compost applications</b>	Potential sources of pathogens or pharmaceuticals are not applied on the land		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Organic materials are applied, stored, and/or handled to mitigate negative impacts to surface and groundwater sources.	
<b>WATER QUALITY: Excessive salts in surface and groundwater</b>	Excess salt is not a concern <b>AND</b> Activities that contribute to excess salt problems not observed		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Salt concentrations are managed to mitigate off-site transport to surface and groundwaters.	
<b>WATER QUALITY: Petroleum, heavy metals and other pollutants</b>	Activities that present the potential for contamination by petroleum, heavy metals and other pollutants not observed		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Petroleum, heavy metals or other potential pollutants are stored and handled to avoid runoff to surface water and leaching to groundwater.	

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<b>WATER QUALITY: Excessive sediment in surface waters*</b>	Permanent ground cover > 90% and slope < 10% <b>AND</b> Classic gullies are not present <b>AND</b> Streams or shoreline are not on or adjacent to site		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Upslope treatment and buffer practices address concentrated flows to water bodies <b>AND</b> SVAP2- bank condition $\geq 5$ ( <i>Banks are stable or moderately stable, protected by roots of natural vegetation, wood or rock. Little or no evidence of erosion or bank failures. Recreational use and/or grazing do not negatively impact bank condition</i> ) <b>AND</b> Livestock and vehicle water crossings are stable <b>AND</b> Water erosion rate $\leq T$ <b>AND</b> Wind erosion rate $\leq T$	
<b>WATER QUALITY: Elevated water temperature</b>	Streams or shorelines not on or adjacent to site. <b>OR</b> Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment <b>OR</b> Water course temperature is not a client concern		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	SVAP2 - riparian area quality element score $\geq 5$ ( <i>Natural and diverse riparian vegetation with composition, density and age structure appropriate for the site: Little or no evidence of concentrated flows through area. Invasive species present in small numbers</i> ) <b>AND</b> SVAP2 - riparian area quantity quality element score $\geq 5$ ( <i>Natural plant community extends at least one bankfull width or more than 1/2 of active flood plain and is generally contiguous throughout property</i> ) <b>AND</b> SVAP2 - canopy cover element score $\geq 6$ ( <i>&gt;50% of water surface shaded within the length of the stream in landowner's property</i> ) <b>OR</b> Existing planned practices are in place to address water temperature.	
<b>PLANT RESOURCES</b>					
<b>DEGRADED PLANT CONDITION: Undesirable plant productivity and health</b>	Plant production and health is not a client concern		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Plants are adapted to the site, meet production goals and do not negatively impact other resources <b>AND</b> Plant damage from wind erosion is below Crop Damage Tolerance levels	
<b>DEGRADED PLANT CONDITION: Inadequate structure and composition</b>	<b>DOES NOT APPLY TO CROPLAND</b>				
<b>DEGRADED PLANT CONDITION: Excessive plant pest pressure*</b>	Plant productivity is not limited from pest pressure		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Pest damage to plants are below economic or environmental thresholds or client-identified criteria <b>AND</b> Plant pests, including noxious and invasive species are managed to meet client objectives	
<b>DEGRADED PLANT CONDITION: Wildfire hazard, excessive biomass accumulation</b>	Wildfire hazard is not a concern.		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Fuel loads and fuel ladders are managed to provide defensible space and meet client objectives	

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<b>LIVESTOCK RESOURCES</b>					
<b>LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage*</b>	Client is not actively grazing animals. (No Grazing Modifier)		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Forage and roughage, including supplemental nutritional requirements are provided to meet production goals.	
<b>LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter*</b>	Client is not actively grazing animals. (No Grazing Modifier)		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Artificial and/or natural shelter meets animal health and client objectives.	
<b>LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water*</b>	Client is not actively grazing animals. (No Grazing Modifier)		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Water of acceptable quality and quantity is provided and adequately distributed to meet Client goals and animal needs.	

<b>List of Resource Concerns</b>
<b>NOTES:</b>