

Appendix A: Survey Questionnaire Items

This question has two parts. First, with regard to drought over the past year, please indicate whether or not each of the following conditions occurred on your land. Then, if the condition occurred, tell us approximately when the condition first occurred during this drought.

	DID IT OCCUR THIS YEAR?			→	WHEN DID IT FIRST OCCUR?	
	NOT APPLICABLE	DID NOT OCCUR	OCCURRED		MONTH	DAY
A. Decreased topsoil moisture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→		
B. Delayed or lack of plant emergence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→		
C. Delayed or lack of plant growth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→		
D. Plant stress (crop or pasture)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→		
E. Deteriorating range conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→		
F. Decreased forage productivity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→		

Please indicate whether or not you took each of the following actions on your farm in response to drought conditions in 2016. If yes, in what month did you begin taking each action?

	NOT APPLICABLE	NO	YES	→	BEGINNING IN WHAT MONTH?
	A. Purchase more hay or feed than usual to supplement existing feed stocks	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
B. Graze fall or winter pastures earlier than planned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→	
C. Destock pastures more than usual (through <u>any</u> culling, early weaning, ending grazing contracts, sending to feedlot, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→	
D. Cull and sell more <u>breeding animals</u> than usual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	→	

How would you describe the effect of the 2016 drought for each of the following? If you experienced harm, what percentage of your yield or productivity would you estimate was lost?

	% OF YIELD OR PRODUCTIVITY LOST
A. Pasture hay yield	
B. Range productivity	
C. Range health or diversity	
D. Animal reproduction	
E. Animal gain/productivity	

Do you consult any of the following sources for information on drought conditions? If yes, how influential are they to your farming/ranching management decisions?

			IF YES, HOW INFLUENTIAL TO YOUR DECISIONS?			
	NO	YES		NOT INFLUENTIAL	SOMEWHAT INFLUENTIAL	VERY INFLUENTIAL
A. On-farm rain gauge or soil moisture sensors	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Own assessment of crop, range, or livestock conditions	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Friends or family	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. State climatologist office	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Local extension	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. National Weather Service	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. U.S. Drought Monitor	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. USDA resources	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Television or radio weather reports	<input type="checkbox"/>	<input type="checkbox"/>	→	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If you had received information earlier that told you when the 2016 drought was starting, would you have acted earlier or differently than you did this year?

- No
- Yes
- I don't know

If you had acted earlier or differently than you did this year, do you think you would have seen less harm to your operation?

- No
- Yes
- I don't know