

2015 Inventory Questions

General	Soil Erosion Concerns				Soil Quality Functions					Water Quantity Concerns			Water Quality Concerns					Air Quality Concerns				Plants		Animal Concerns				Energy
	sheet, rill, wind, irrigation,	ephemeral, gully	streambank, shoreline*	road banks, construction sites*	organic matter depletion (habitat, compaction, water partitioning)	OM oxidation	salinity, other contaminants	nutrient cycling	compaction	excess water	insufficient water	inefficient use of irrigation water	sediment	nutrients	pesticides	pathogens	salinity	airborne soil particulates (PM)	greenhouse and ozone gases	chemical spray drift*	odors	quantity, diversity, health, vigor	declining populations-T&E species	Domestic Livestock-cover, food, and water	Terrestrial Wildlife-cover, food, connectivity, and water	Aquatic Wildlife-structure, food, water temperature	Declining populations-T&E species	energy conservation
1	Do you have any water bodies (ponds, lakes, or wetlands) or water courses (streams, rivers or ditches) on the indicted land use?																											
	Cropland																											
	Pastureland																											
	Rangeland																											
2	Do you have unpaved farm roads used by farm vehicles (does not include unpaved county roads or other unpaved public roads) or other unpaved areas such as feedlots or material handling areas that frequently result in significant dust generation, reducing visibility along the road or over the unpaved area for extended periods?																											
	If yes, check any of the following methods you regularly use to control dust.																											
	Regularly spraying water to reduce the dust																											
	Apply biodegradable oils to reduce the dust																											
	Gravel surfacing																											
	Apply other environmentally benign dust control chemicals																											
	None of the above																											
3	Identify each energy conservation reduction method used on your farm:																											
	<p>Have you replaced electric motors or engines on your farm with high efficiency models in the last 3 years? A "yes" answer considers the following:</p> <ul style="list-style-type: none"> The motors should be labeled as "premium", which means they are more efficient than the current DOE standard. Considers only electric motors that are used for major activities on the farm such as pumps to move water or waste, ventilation fans, etc. Refer to the ANSI/ASABE S612 Performing On-Farm Energy Audits for a list of "major activities". 																											
	<p>Do you use alternative energy sources (solar, wind, biofuels, green energy) to replace fossil fuel energy uses on your farm? A "yes" answer considers the following examples:</p> <ul style="list-style-type: none"> Wind or solar powered pumps Solar powered electric fencing Any biofuel blend 																											
	<p>Have you improved the efficiency of heating, cooling or drying operations on your farm in the last 3 years? A "yes" answer considers the following:</p> <ul style="list-style-type: none"> Evaluation is conducted on how energy efficient a particular grain drying system is rather than a comparison of one system versus another. Refer to the decision tree to determine if an applicant has an energy efficient grain drying system. 																											
	<p>Have you conducted an energy audit on your farm and are now implementing the energy audit actions? A "yes" answer considers the energy audit complies with ANSI/ASABE S612 Performing On-Farm Energy Audits.</p>																											
	<p>Have you performed a pumping plant evaluation during the last 3 years and implemented the recommendations? A "yes" answer considers the following:</p> <p>High efficiency pumping plants installed within last 3 years or recognized through pumping plant evaluation, include those using solar or other renewable energy sources. Pumping plants should include:</p> <ul style="list-style-type: none"> a Tier III or Tier IV diesel motor, using a variable frequency drive and/or have had a pumping plant evaluation and implemented its recommendations in the last 3 years. 																											

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Pastureland		Soil Erosion Concerns				Soil Quality Functions				Water Quantity Concerns			Water Quality Concerns					Air Quality Concerns				Plants		Animal Concerns				Energy
		sheet, rill, wind, irrigation,	ephemeral, gully	streambank, shoreline*	road banks, construction, sites*	organic matter depletion (habitat, compaction, water partitioning)	OM oxidation	salinity, other contaminants	nutrient cycling	compaction	excess water	insufficient water	inefficient use of irrigation water	sediment	nutrients	pesticides	pathogens	salinity	airborne soil particulates (PM)	greenhouse and ozone gases	chemical spray drift*	odors	quantity, diversity, health, vigor	declining populations-T&E species	Domestic Livestock-cover, food, and water	Terrestrial Wildlife-cover, food, connectivity, and water	Aquatic Wildlife-structure, food, water temperature	Declining populations-T&E species
1	Do you have an adequate grazing and roughage supply to meet forage demands of livestock and wildlife? Grass and hay for livestock and purchased hay are included in this answer. This includes where wildlife regularly consume forage in pastures.	5	4	4		4	2	3	2		3	3	2	3			2	2				5	2	5	3			
2	SELECT ONE (a-c) Grazing Management level BELOW																											
	a) Forages are grazed below established minimum grazing heights.	-3	-2	-2		-2	-2	-2	-1		-1	-2	-1	-1	-1							-3		-2	-2			-2
	b) Forages are grazed at or above established minimum grazing heights. Spot grazing occurs on 50% or more of the acres.	4	5	5		4	2	2	2		2											3		3	4		4	
	c) Forages are grazed at or above established minimum grazing heights. Spot grazing occurs on less than 50% of the acres.	5	5	5		5	3	4	4		4	1	1	1	1							5		5	3		3	
3	From the STATE populated look up table and the choices below (a-d), select the one that best describes the mix of plants growing in your pasture. Note: functional group means warm season, cool season, forbs, legumes, annual, etc. From the State populated look up table-Select 'Species Info' button to view lists.																											
	a) One dominant perennial forage species.					1		1			1											2		2	2		-1	
	b) Two or more dominant forage species all from one functional group.					2		2			1											3		3	4		3	
	c) Two or more dominant forage species representing two functional groups.					3		3			2											5		5	5		4	
	d) Three or more dominant forage species representing at least two functional groups with at least one being a legume.																											
4	From the STATE populated look up table and the choices below (a-d), select the one that best describes the mix of plants growing in your pasture. From the State populated look up table-Select 'Species Info' button to view lists.																											
	a) Pasture vegetation is composed of species from List B.																										-3	
	b) Pasture vegetation is predominantly species from List B but one or more species from List A make up at least 30% of the stand.																							1	1		1	
	c) Pasture vegetation is composed of 1 or 2 species from List A that make up at least 60% of the stand.																							2	3		2	
	d) Pasture vegetation is composed of 3 or more species from List A that make up at least 60% of the stand.																							3	5		3	
5	Do you have any areas such as field borders, filter strips, buffers, odd areas, windbreaks, wetlands, brushy draws, hedgerows, seeps, shallow																											
5.1	From the choices below (a-c), select the answer that best describes the plants growing on these areas within or adjacent to the pasture.																											
	a) Less than 33% of the vegetation is native or introduced species that provide food and cover for wildlife, pollinators, and/or beneficial insects.																											
	b) 33 – 67% of the vegetation is native or introduced species that provide food and cover for wildlife, pollinators, and/or beneficial insects.																					3			3		3	
	c) More than 67% of the vegetation is native or introduced species that provide food and cover for wildlife, pollinators, and/or beneficial insects.																					5			5		5	
5.2	From the choices below, select the answer that best describes the AMOUNT of suitable wildlife habitat within or adjacent to the pasture.																											
	a) Habitat less than 1% of the pasture.																	1	1								-5	-5
	b) Habitat is between 1% and 5% of the pasture.																	1	1								1	1
	c) Habitat is between 6% and 10% of the pasture.																	1	1								3	2
	d) Habitat more than 10% of the pasture.																	2	2								5	3
5.3	From the choices below (a-d), select the answer that best describes the WIDTH of wildlife habitat within or adjacent to the pasture (must be at least 0.1 acre or more)																											
	a) less than 30 feet wide																	1	1								-5	-5
	b) 30 to 75 feet wide																	1	1								1	1
	c) 76 to 120 feet wide																	1	1								3	2
	d) more than 120 feet wide																	2	2								5	3
5.4	How far is the wildlife habitat from the center of the pasture?																											
	a) Average distance from the center of the pasture to the habitat is more than 1320 feet																											-2
	b) Average distance from the center of the pasture to the habitat is 660 to 1320 feet																											1
	c) Average distance from the center of the pasture to the habitat is 330 to 659 feet																											3
	d) Average distance from the center of the pasture to the habitat is less than 330 feet																											5

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Water Bodies, Erosion, & Runoff Information																								
6	Do you manage access roads, stock trails and other critical areas to limit surface water runoff and control accelerated soil erosion? Gully erosion is stabilized.	2	5																					
7	Are livestock concentration areas such as feeding, watering and mineral areas located away from water bodies or have buffers to protect the water bodies from unfiltered runoff? If there are no water bodies or water courses on or adjacent to your pastureland, select Yes.																							
Pest Management Information																								
8	Do you apply any pesticides on your pastureland acres? A "No" answer for a forage mixture does not generate a negative response for that same																							
8.1	Select the choice (a-c) below that best describes how you manage pests on your pasture.																							
	a) Pesticides are applied to all forage species in the mixture <u>without</u> utilizing any pest prevention, avoidance, monitoring, or suppression (PAMS) strategies.																							
	b) Pesticides are applied to <u>some</u> forage species in the mixture using a site-specific combination of <u>each</u> pest prevention, avoidance, monitoring, and suppression (PAMS) strategies, OR pesticides are applied to <u>all</u> forage species in the mixture using <u>only</u> one, two or three of the four PAMS strategies.																							
	c) Pesticides are applied to all forage species in the mixture utilizing a site-specific combination of each pest prevention, avoidance, monitoring, and suppression (PAMS) strategies.																							
8.2	Do you use an environmental risk screening tool (such as WIN-PST or similar approved tool) to reduce pesticide risk to soil and water resources?																							
Nutrient Management Information																								
9	Do you apply organic or inorganic nutrients on your pastureland acres? This includes irrigation water, biosolids, organic by-products, and commercial																							
9.1	Do you apply nutrients from organic sources?	2																						
9.1.1	Are the organic sources analyzed to determine nutrient content, and heavy metal content, if sewage waste/sludge is a source?																							
9.1.1a	Consider the primary nutrient (i.e., N, P or K) contained in the organic source in the <u>LEAST</u> quantity, select the answer that best matches the forage management system on your operation.																							
	a) The organic source applied <u>exceeds</u> this nutrient need on <u>all</u> the forages.	-1.5																						
	b) The organic source applied <u>exceeds</u> this nutrient need on <u>some</u> of the forages.	-1																						
	c) The organic source applied <u>meets</u> this nutrient needs on <u>some</u> of the forages.	-0.5																						
	d) The organic source applied <u>meets</u> this nutrient need on <u>all</u> of the forages.																							
9.1.1b	Consider the primary nutrient (i.e., N, P or K) contained in the organic source in the <u>GREATEST</u> quantity, select the answer that best matches the forage management system on your operation.																							
	a) The organic source applied <u>exceeds</u> this nutrient need on <u>all</u> the forages.	-1.5																						
	b) The organic source applied <u>exceeds</u> this nutrient need on <u>some</u> of the forages.	-1																						
	c) The organic source applied <u>meets</u> this nutrient needs on <u>some</u> of the forages.	-0.5																						
	d) The organic source applied <u>meets</u> this nutrient need on <u>all</u> of the forages.																							
9.2	Do you soil test <u>ALL</u> forage management system fields following local land grant university guidance (e.g., annually, every 3 years, every 4 years, etc)?																							
9.2.1	Consider the primary nutrient (i.e., N, P or K) needed the <u>MOST</u> for the forage management system according to the soil test results, select the answer that best matches the forage management system on your operation. The response should consider established yield records or state derived realistic yields in excess of the guidance/recommendations.																							
	a) The nutrient application rate applied <u>exceeds</u> the soil test recommendation on <u>all</u> the forages.																							
	b) The nutrient application rate applied <u>exceeds</u> the soil test recommendation on <u>some</u> of the forages.																							
	c) The nutrient application rate applied <u>meets</u> the soil test recommendation on <u>some</u> of the forages.																							
	d) The nutrient application rate applied <u>meets</u> the soil test recommendation on <u>all</u> of the forages.																							

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Rangeland		Soil Erosion Concerns				Soil Quality Functions				Water Quantity Concerns			Water Quality Concerns					Air Quality Concerns				Plants		Animal Concerns				Energy
		sheet, rill, wind, irrigation	ephemeral gully	streambank, shoreline*	road banks, construction sites*	organic matter depletion (habitat, compaction, water partitioning)	OM oxidation	salinity, other contaminants	nutrient cycling	compaction	excess water	insufficient water	inefficient use of irrigation water	sediment	nutrients	pesticides	pathogens	salinity	airborne soil particulates (PM)	greenhouse and ozone gases	chemical spray drift*	odors	quantity, diversity, health, vigor	declining populations-T&E species	Domestic Livestock-cover, food, and water	Terrestrial Wildlife-cover, food, connectivity, and water	Aquatic Wildlife-structure, food, water temperature	Declining populations-T&E species
1	Do you have an adequate grazing and roughage supply to meet forage demands of livestock and wildlife? Grass and hay for livestock and purchased hay are included in this answer. This includes where wildlife regularly consume forage in pastures.	5	4	4		4		2	3	2			3	1		1		2	1			5	2	5	4		2	
2	CHOOSE ONE (a-d) Grazing Management level BELOW																											
	a) Rangeland is heavily grazed (more than 65% use).	-3	-2	-2		-2		-2	-2	-2			-2	-1		-1		-1	-1			-3	-2	-3	-3	-3	-3	
	b) Stocking rates are managed to achieve proper forage utilization. Rangeland is moderately grazed (35-65% use) with even grazing distribution.	4	2	3		4		2	3	4								1	1			4	1	5	1	1	1	
	c) Stocking rates are managed to achieve proper forage utilization. Rangeland is moderately grazed (35-65% use) with some ungrazed or lightly grazed patches.	4	2	3		4		2	3	3			2	2		2		1	1			4	1	5	3	2	2	
	d) Rangeland is lightly grazed (less than 35% use) with numerous ungrazed areas creating a patchy appearance.	5	4	4		5		3	4	5			3	3		3		2	2			5	3	5	5	4	4	
3	From the choices below (a-d), select the one that best describes the mix of plants growing on your rangeland.																											
	a) Rangeland acres are predominantly occupied by non-native plant species. Native plants have mostly been replaced due to invasion, grazing pressure or seeding to non-native species.																					-3	-3	-1	-3		-3	
	b) Number and kinds of plant species represent less than 1/3 of the potential native plant community for the natural site. Plants that increase under grazing pressure (e.g., "increasers") are abundant.																					-1	-1		-1		-1	
	c) Number and kinds of plant species on site is between 1/3 and 2/3rds of the number and kinds of plants typically expected for the natural site.																					3	3	3	3		3	
	d) Number and kinds of plant species onsite represent more than 2/3rds of the number/kinds of plant species typical of natural site conditions. Plants that decrease under grazing pressure (i.e., "decreasers") are still abundant.																					5	5	5	5		5	
4	Do you have watering facilities such as tanks, troughs, etc.?																											
	How many of your Watering Facilities (tanks, troughs, etc.) provide safe access and escape for wildlife, provide water during the frost free parts of the year, and are free of hazards for aerial drinking wildlife (bats, swallows, etc.).																											
	a) less than 25%																											
	b) 25 to 50%																											
	c) 51 to 75%																											
	d) more than 75%																											
5	Do you apply any brush management?																											
	From the choices below (a-c), select the answer that best describes how brush is managed on your rangeland. Noxious and/or invasive woody species such as Russian Olive and Saltcedar may be totally removed, if possible.																											
	a) Woody species are not managed for wildlife. There is an evident browse line; or, brush is totally eliminated with brush management measures.																											
	b) Woody species are managed so that populations are only partially eliminated with brush management measures. There is absence of a browse line, although hedging on key browse plants may be observed.																											
	c) Woody species are managed so that populations are only partially eliminated with brush management measures. Brush management is done in patterns and amounts developed with wildlife considerations.																											

