

# Conservation Measurement Tool

## Ag Land - General Inventory

<b>Date:</b>
<b>Prepared By:</b>
<b>Enter Producer Name:</b>
<b>Enter Farm/Tract Number:</b>
<b>Enter State:</b>

**1 Other Lands:** These areas are within the bounds of your operation. They include incidental areas that are not in agricultural production, or developed areas on the farm or ranch such as farm headquarters, ranch sites, barnyards, feedlots, manure storage facilities, machinery storage areas, and material handling facilities. All these areas must meet the following condition for stewardship eligibility to be met.

Do you have any 'Other Lands' that have any readily observable erosion or other obvious resource concerns such as gullies, manure runoff or pesticide runoff?  Yes  No

**2 Do you have any water bodies (ponds, lakes, or wetlands) or water courses (streams, rivers or ditches) on the indicated land use?**

Cropland  Yes  
Pastureland  Yes  
Rangeland  Yes

**3 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.**

Yes

No

Regularly spraying water to reduce the dust

Yes

Apply biodegradable oils to reduce the dust

Yes

Gravel surfacing

Yes

Apply other environmentally benign dust control chemicals

Yes

**4 Identify each energy conservation reduction method used on your farm:**

Have you replaced electric motors or engines on your farm with high efficiency models in the last 3 years?

Yes

Do you use alternative energy sources (solar, wind, biofuels, green energy) to replace fossil fuel energy uses on your farm?

Yes

Have you improved the efficiency of heating, cooling or drying operations on your farm in the last 3 years?

Yes

Have you conducted an energy audit on your farm and are now implementing the energy audit actions?

Yes

Have you performed a pumping plant evaluation during the last 3 years and implemented the recommendations?

Yes



<p><b>2</b> <sup>Cn'd</sup></p>	<p><b>d) Enter the number of harvested crops in your rotation or management system that are included in the list below</b> (or are similar to those listed if not listed): Amaranth, Chufas, Corn Grain/Popcorn, Cranberries, Desert grass, Guava, Herbs perennial, Kenaf, Maple trees for syrup, Mint all for oil, Peppermint for oil, Rice, Sesame, Small Grains, Sorghum, Sugarcane, Teff, Woody perennials with cover in the alleys including Apricots, Berry/Fruit Crops (Trees and Shrubs), Coffee, Grapes, Nut Trees, Pine Trees ornamental, Temples, other orchard/vineyards crops.</p> <p><b>e) Enter the number of harvested crops in your rotation or management system that are included in the list below</b> (or are similar to those listed if not listed): Dichondra, Grass Hay/Seed, Legume Hay /Seed, Lotus root, or similar herbaceous perennial crops. This does not include grass harvested for sod.</p>	<p><input type="text"/></p> <p><input type="text"/></p>
<p><b>3</b></p>	<p><b>Enter the number of times during your rotation or management system that you plant a cover crop that you do not harvest. OR for a vineyard, orchard or other permanent crop enter the percentage (expressed as a decimal number) of the time you maintain cover between the rows.</b></p>	<p><input type="text"/></p>
<p><b>4</b></p>	<p><b>Enter the number of different crop species/types in your rotation or management system, including different types of cover crops.</b> For example, a corn, soybean, wheat rotation with a fall cover crop would be 4. A corn, corn, soybean rotation would be 2.</p>	<p><input type="text"/></p>
<p><b>5</b></p>	<p><b>Using a dependable source of water (precipitation or pumped), do you intentionally flood cropland for wetland wildlife when crops are not growing? To qualify, at least 1/3 of a field must be flooded. If "NO", skip to Question 6.</b></p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p><b>5.1</b></p>	<p><b>Cropland is intentionally flooded:</b></p> <p>a) Less than 2 months per year.</p> <p>b) 2 months per year on heavy clay soils (Hydrologic group C or D).</p> <p>c) 3 months per year on heavy clay soils (Hydrologic group C or D).</p> <p>d) 4 months per year on heavy clay soils (Hydrologic group C or D).</p> <p>e) More than 4 months per year on heavy clay soils (Hydrologic group C or D).</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>5.2</b></p>	<p><b>Cropland is intentionally flooded:</b></p> <p>a) Less than 2 out of 3 years.</p> <p>b) 2 out of 3 years.</p> <p>c) Annual flooding.</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>5.3</b></p>	<p><b>Considering all of your cropland, what percentage is normally flooded?</b></p> <p>a) Less than 33%</p> <p>b) 33 - 50%</p> <p>c) 51 - 75%</p> <p>d) More than 75%</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>

<p><b>6 Does your rotation, orchard or vineyard include hay or other grass or legume cover? If "NO", skip to Question 7.</b></p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>6.1 How many years of hay or other perennial(s) do you have in your rotation? OR How often do you grow a cover between rows in your orchard or vineyard? – include the establishment year.</b></p>	<input style="width: 50px; height: 30px;" type="text"/>
<p><b>6.2 Select the choice that best describes the mix of plants you are growing for hay. FROM STATE populated look up table -Select 'Species Info' button to view Lists.</b></p> <p>a) Hayland is composed of species from List B. <input type="checkbox"/></p> <p>b) Hayland is predominantly species from List B but one or more species from List A makes up at least 30% of the stand. <input type="checkbox"/></p> <p>c) Hayland is composed of 1 or 2 species from List A that make up at least 60% of the stand. <input type="checkbox"/></p> <p>d) Hayland is composed of 3 or more species from List A that make up at least 60% of the stand. <input type="checkbox"/></p>	
<p><b>6.3 Select the choice that best describes your schedule for mowing hay.</b> This question assesses the impact of hay mowing practices on wildlife.</p> <p>a) The entire field is cut during the nesting season <input type="checkbox"/></p> <p>b) Up to one half of the field is cut during the nesting season (with some areas excluded for wildlife) using wildlife friendly techniques (such as minimum mowing height, flushing bars, mowing toward the outside of the field, mow only during daylight). <input type="checkbox"/></p> <p>c) Hay cut after 75% of the nesting season is completed. <input type="checkbox"/></p> <p>d) Hay cut not more than once per year and is cut after 75% of the nesting season using wildlife-friendly harvest techniques. <input type="checkbox"/></p> <p>e) Hay cut not more than once per year and is cut after the nesting season. <input type="checkbox"/></p> <p>f) Hay cut occasionally, but not each year and is cut before or after the nesting season using wildlife-friendly harvest techniques. <input type="checkbox"/></p>	
<p><b>7 Do you have any areas such as field borders, filter strips, buffers, odd areas, windbreaks, wetlands, brushy draws, hedgerows, seeps, shallow water areas, riparian areas, vegetated ditches, CRP land, native vegetated communities, center pivot corners or other similar areas that provide wildlife, pollinator and/or beneficial insect habitat within or adjacent to your cropland (orchards, hayland, vineyards, etc.)? You must own or control these areas. If "NO", skip to Question 8.</b></p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>7.1 Select the choice that best describes the plants growing on the areas that provide wildlife, pollinator and/or beneficial insect habitat within or adjacent to the crop/hay field.</b></p> <p>a) Less than 33% of the vegetation is native or introduced species that provide food and cover for wildlife, pollinators, and/or beneficial insects. <input type="checkbox"/></p> <p>b) 33-67% of the vegetation is native or introduced species that provide food and cover for wildlife, pollinators, and/or beneficial insects. <input type="checkbox"/></p> <p>c) More than 67% of the vegetation is native or introduced species that provide food and cover for wildlife, pollinators, and/or beneficial insects. <input type="checkbox"/></p>	

<p><b>7.2 Select the choice that best describes the AMOUNT of wildlife, pollinator and/or beneficial insect habitat within or adjacent to the crop/hay field.</b></p> <p>a) Habitat is <b>less than 1%</b> of the crop/hay field. <input type="checkbox"/></p> <p>b) Habitat is between <b>1% and 5%</b> of the crop/hay field. <input type="checkbox"/></p> <p>c) Habitat is between <b>6% and 10 %</b> of the crop/hay field. <input type="checkbox"/></p> <p>d) Habitat is more than <b>10%</b> of the crop/hay field. <input type="checkbox"/></p>
<p><b>7.3 Select the choice that best describes the average WIDTH of wildlife, pollinator and/or beneficial insect habitat within or adjacent to the crop/hay field.</b></p> <p>a) <b>less than 30</b> feet wide <input type="checkbox"/></p> <p>b) <b>30 to 75</b> feet wide <input type="checkbox"/></p> <p>c) <b>76 to 120</b> feet wide <input type="checkbox"/></p> <p>d) <b>more than 120</b> feet wide <input type="checkbox"/></p>
<p><b>7.4 What is the average distance (ft.) from the center of the crop/hay field to the wildlife, pollinator and/or beneficial insect habitat?</b></p> <p>a) <b>More than 1320</b> feet <input type="checkbox"/></p> <p>b) <b>660 to 1320</b> feet <input type="checkbox"/></p> <p>c) <b>330 to 660</b> feet <input type="checkbox"/></p> <p>d) <b>Less than 330</b> feet <input type="checkbox"/></p>
<p><b>8 Do you intentionally leave unharvested crops in the field for wildlife food/cover on an annual basis? If "YES", select the choice that best describes how much you leave. If "NO", skip to question 9.</b></p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>a) <b>1/4 – &lt;1 acre of food plot or unharvested grain per 40 acres</b> of cropland (minimum 30 feet wide and next to noncrop cover). <input type="checkbox"/></p> <p>b) <b>&gt; 1 acre of food plot or unharvested grain per 40 acres</b> of cropland (minimum 30 feet wide and next to noncrop cover). <input type="checkbox"/></p>

**Water Conservation and Residue Management**

<p><b>9 Before field operations, do you check soil moisture by methods such as moisture-by-feel or more sophisticated methods to minimize soil compaction?</b></p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><b>10 Do you consistently use controlled traffic methods (either GPS or manual methods) to minimize soil compaction?</b></p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>

**11 Answer each residue management and/or tillage system question below:**

**a) Enter the number of crops in your rotation that have full width tillage, deeper than 4 inches that involves soil inversion and lifting (such as plows or deep disking). This does not include fertilizer injectors.**

**b) Enter the number of crops in your rotation that have full width tillage, deeper than 4 inches that involves soil fracturing and lifting (such as subsoilers, rippers or paraplows). In orchards and vineyards, ignore alternate year cultivation in every other alleyway during the dry season to manage moisture competition.**

**c) Enter the number of crops in your rotation that have full width tillage performed after harvest and leaves more than 30% residue cover. In orchards and vineyards, ignore alternate year cultivation in every other alleyway during dry season to manage moisture competition. Does not include seedbed preparation immediately prior to planting of a cover crop.**

**d) Enter the number of crops in your rotation for which you use conservation tillage (includes mulch tillage) and maintain greater than 30% residue cover after planting. Residue cover includes crop residues, cover crops, composts or other natural mulch materials; it does not include plastic.**

**e) Enter the number of crops in your rotation for which you use a no till system that maintains greater than 50% residue cover after planting. Residue cover includes crop residues, cover crops, composts or other natural mulch materials; it does not include plastic.**

**f) Enter the number of crops in your rotation for which you use a no till system that maintains greater than 75% residue cover after planting. Residue cover includes crop residues, cover crops, composts or other natural mulch materials; it does not include plastic. For systems using perennials with no tillage after year of establishment, include the number of years of perennials. For vineyards, orchards or other permanent crops, enter 1 here.**

**12 Select the choice that best describes the average condition of crop residues left in the field during the winter for wildlife cover. If none of these apply, do not answer and skip to 13.**

a) Fall tillage, undisturbed soybean residue or any kind of harvested silage.

b) Crop residue chopped or shredded with no soil disturbance or grasses or legumes are included in the rotation and cover the field during winter.

c) Crop residues are gleaned by livestock but no mechanical disturbance of residue or soils.

d) Crop residue, grain stubble, hay/forage crop, or cover crop left standing overwinter. Height is less than 8 inches.

e) Crop residue, grain stubble, hay/forage crop, or cover crop left standing overwinter. Height is greater than 8 inches.

### Erosion, & Runoff Information

<b>13</b>	<b>Is your cropland or hayland managed so there are no signs of erosion or gullies after a heavy rainfall, significant snowmelt, or irrigation?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>14</b>	<b>Select any of the following practices that are applied to your cropland or hayland acres:</b>	
	contour farming (330)	<input type="checkbox"/>
	contour orchard or other fruit area (331)	<input type="checkbox"/>
	contour strip cropping (585)	<input type="checkbox"/>
	windbreaks (380)	<input type="checkbox"/>
	terraces (600)	<input type="checkbox"/>
	diversions (362)	<input type="checkbox"/>
	hillside ditch (423)	<input type="checkbox"/>
	grassed waterways (412)	<input type="checkbox"/>
	grade stabilization structure (410)	<input type="checkbox"/>
	rock barrier (555)	<input type="checkbox"/>
	contour buffer strips (332)	<input type="checkbox"/>
	herbaceous wind barriers (603)	<input type="checkbox"/>
	cross wind trap strips (589C)	<input type="checkbox"/>

### Pest Management Information

<b>15</b>	<b>Do you apply any pesticides on your cropland or hayland acres? If "NO", skip to Question 16.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>15.1</b>	<b>Select the choice that best describes how you manage pests on your cropland or hayland acres.</b>	
	a) Pesticides are applied without documenting the pest population densities and locations.	<input type="checkbox"/>
	b) Some components of an Integrated Pest Management (IPM) system are used, such as pest-free seeds and transplants, cleaning tillage and harvesting equipment between fields, pest-resistant varieties, crop rotation, trap crops, pest scouting, biological pest controls, spot spraying, individual plant treatment, banding, directed spraying, manual removal, and scheduling irrigation to avoid disease development.	<input type="checkbox"/>
	c) A full Integrated Pest Management (IPM) system is utilized with scouting and economic thresholds to manage pests and reduce pest management environmental risk.	<input type="checkbox"/>
<b>15.2</b>	<b>Do you use an environmental risk screening tool (such as WIN-PST or similar) to reduce pesticide risk to soil and water resources?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No

### Nutrient Management Information

<b>16</b>	<b>Do you apply fertilizers or manure on your cropland or hayland acres? If "NO", skip to Question 17.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>16.1</b>	<b>Do you apply manure, compost, or other organic amendment to meet (but not exceed) crop nutrient needs?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No

<b>16.2 Do you soil test</b> (or tissue test for orchards, vineyards, or other permanent crops) <b>on all crop and hayland fields at least once every 5 years AND do you use the test results to plan your nutrient application rates?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>16.3 Do you apply fertilizers and manures based on established or realistic crop yields from crop records AND do you give appropriate credit for nutrients</b> from manure, cover crops, irrigation water, previous crops, or organic matter, as applicable, by using analysis or book values for these sources to plan nutrient application rates and timing?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>16.4 Select all that apply when you apply fertilizer or manure.</b> a) incorporate (within 24 hours) or inject manure or fertilizer at least 2 inches deep. b) precision agriculture techniques are used in the application of fertilizer and manure. c) apply on 80% residue cover or 80% crop canopy.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>16.5 Select the answer that best describes when you apply the majority of nutrients.</b> a) Most of the manure or fertilizer is applied <b>more than one month</b> prior to planting or <b>more than one month</b> prior to “greenup” of perennial crops. b) Most of the manure or fertilizer is applied <b>within one month</b> prior to planting or <b>within one month</b> prior to “greenup” for perennial crops. c) Most of the manure or fertilizer is applied <b>after crop</b> emergence or <b>after annual growth begins</b> (greenup) for perennial crops. d) Most of the manure or fertilizer is applied as a <b>split application</b> (pre-plant & post plant), according to soil tests or crop growth stages. Application split must be at least 50% post emergence.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**Salinity, Sodicty, and Irrigation Management**

<b>17 Do you have any Salinity or Sodicty (alkaline soils or seeps) concerns on your cropland or hayland acres? If "NO", skip to Question 18.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>17.1 Do you manage saline seeps by using high water use, salt tolerant crops or cropping pattern</b> to manage or minimize salinity in the soil, surface water, and/or ground water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>17.2 Do you manage nutrient application (type and rate) and irrigation based on your soil and irrigation water properties for your saline or sodic soils?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>18 Do you irrigate cropland and/or hayland? If "YES", answer Questions 18.1 - 18.3.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>18.1 Do you measure the amount of water you use to irrigate?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>18.2 Do you schedule your irrigations with some form of soil moisture or evapotranspiration monitoring?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>18.3 Has your irrigation system been tested to measure distribution uniformity and changes made based, if needed, on the results of the tests?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No

# Conservation Measurement Tool

## Pastureland Existing Activity Conservation Performance

Enter Pasture Species Mix Name Below	Enter Mixture Acres Below

1	Do you have an adequate grazing and roughage supply to meet forage demands of livestock and wildlife?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2	<b>SELECT ONE (a-c) Grazing Management level BELOW</b>		
	a) Forages are grazed below established minimum grazing heights.	<input type="checkbox"/>	
	b) Forages are grazed at or above established minimum grazing heights. Spot grazing occurs on 50% or more of the acres.	<input type="checkbox"/>	
	c) Forages are grazed at or above established minimum grazing heights. Spot grazing occurs on less than 50% of the acres.	<input type="checkbox"/>	
3	<b>From the choices below (a-d) select the one that best describes the mix of plants growing in your pasture. FROM STATE populated look up table</b>		
	a) One dominant perennial forage species.	<input type="checkbox"/>	
	b) Two or more dominant forage species all from one functional group.	<input type="checkbox"/>	
	c) Two or more dominant forage species representing two functional groups.	<input type="checkbox"/>	
	d) Three or more dominant forage species representing at least two functional groups with at least one being a legume.	<input type="checkbox"/>	
4	<b>From the choices below (a-d) select the one that best describes the mix of plants growing in your pasture. FROM STATE populated look up table</b>		
	a) Pasture vegetation is composed of <b>species from List B.</b>	<input type="checkbox"/>	
	b) Pasture vegetation is predominantly <b>species from List B</b> but <b>one or more species from List A</b> makes up <b>at least 30%</b> of the stand.	<input type="checkbox"/>	
	c) Pasture vegetation is composed of <b>1 or 2 species from List A.</b> that make up <b>at least 60%</b> of the stand.	<input type="checkbox"/>	
	d) Pasture vegetation is composed of <b>3 or more species from List A</b> that make up <b>at least 60%</b> of the stand.	<input type="checkbox"/>	
5	<b>Do you have any areas such as field borders, filter strips, buffers, odd areas, windbreaks, wetlands, brushy draws, hedgerows, seeps, shallow water areas, riparian areas, center pivot corners, CRP land, or other similar areas</b> that provide wildlife habitat within or adjacent to your pasture? You must own or control these areas. <b>If "NO", skip to Question 6.</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No

<b>5.1</b>	<b>From the choices below (a-c) select the answer that best describes the plants growing on these areas within or adjacent to the pasture.</b>	
	<b>a) Less than 33%</b> of the vegetation is native or introduced species that provided food and cover for wildlife, pollinators, and/or beneficial insects	<input type="checkbox"/>
	<b>b) 33-67%</b> of the vegetation is native or introduced species that provided food and cover for wildlife, pollinators, and/or beneficial insects	<input type="checkbox"/>
	<b>c) More than 67%</b> of the vegetation is native or introduced species that provided food and cover for wildlife, pollinators, and/or beneficial insects	<input type="checkbox"/>
<b>5.2</b>	<b>From the choices below select the answer that best describes the AMOUNT of suitable wildlife habitat within or adjacent to the pasture.</b>	<input type="checkbox"/>
	<b>a) Habitat less than 1%</b> of the pasture.	<input type="checkbox"/>
	<b>b) Habitat is between 1% and 5%</b> of the pasture.	<input type="checkbox"/>
	<b>c) Habitat is between 6% and 10%</b> of the pasture.	<input type="checkbox"/>
	<b>d) Habitat more than 10%</b> of the pasture.	<input type="checkbox"/>
<b>5.3</b>	<b>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)</b>	
	<b>a) less than 30 feet</b> wide	<input type="checkbox"/>
	<b>b) 30 to 75 feet</b> wide	<input type="checkbox"/>
	<b>c) 76 to 120 feet</b> wide	<input type="checkbox"/>
	<b>d) more than 120 feet</b> wide	<input type="checkbox"/>
<b>5.4</b>	<b>How far is the wildlife habitat from the center of the pasture?</b>	
	<b>a) Average distance from the center of the pasture to the habitat is more than 1320 feet</b>	<input type="checkbox"/>
	<b>b) Average distance from the center of the pasture to the habitat is 660 to 1320 feet</b>	<input type="checkbox"/>
	<b>c) Average distance from the center of the pasture to the habitat is 330 to 660 feet</b>	<input type="checkbox"/>
	<b>d) Average distance from the center of the pasture to the habitat is less than 330 feet</b>	<input type="checkbox"/>

**Water Bodies, Erosion, & Runoff Information**

<b>6</b>	<b>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.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>7</b>	<b>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.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No

### Pest Management Information

<p><b>8 Do you apply any pesticides on your pastureland acres?</b> If "NO", skip to Question 9.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>8.1 Select the choice (a-c) below that best describes how you manage pests on your pasture.</b></p> <p><b>a) Pesticides are applied without using an Integrated Pest Management (IPM) system.</b> <input type="checkbox"/></p> <p><b>b) Some components of an IPM system are utilized, such as using pest-free seeds and transplants, feeding hay without any noxious weed seeds, scheduling irrigation to avoid situations conducive to disease development, using pest-resistant varieties, spot spraying, individual plant treatment, banding, directed spraying, hand hoeing, select non-invasive forage species, pest scouting, and biological pest controls.</b> <input type="checkbox"/></p> <p><b>c) A full IPM system is utilized with scouting and economic thresholds to manage pests and reduce pest management environmental risk, utilizing pest suppression techniques (including pesticide applications) only after monitoring (including pest scouting) verifies that a pest population has reached an economic threshold.</b> <input type="checkbox"/></p>	
<p><b>8.2 Do you use an environmental risk screening tool (such as WIN-PST or similar) to reduce pesticide risk to soil and water resources?</b></p>	<input type="checkbox"/> Yes <input type="checkbox"/> No

### Nutrient Management Information

<p><b>9 Do you apply fertilizers or manure on your pastureland?</b> If "NO", skip to question 10.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>9.1 Do you soil test on your pastureland fields at least once every 5 years AND do you use the test results to plan your nutrient application rates?</b></p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>9.2 Do you apply fertilizers and manures based on established or realistic forage yields from forage records and do you give appropriate credit for nutrients from manure, irrigation water, supplemental feed, or organic matter, as applicable, by using analysis or book values for these sources to plan nutrient application rates and timing?</b></p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>9.3 Select all that apply to your methods of application of fertilizer or manure.</b></p> <p><b>a) inject manure or fertilizer at least 2 inches deep</b> <input type="checkbox"/></p> <p><b>b) precision agriculture techniques are used in the application of fertilizer and manure.</b> <input type="checkbox"/></p> <p><b>c) apply on 80% surface cover with at least the minimum grazing heights.</b> <input type="checkbox"/></p>	
<p><b>9.4 From choices below (a-b) select the answer that best describes when you apply the majority of nutrients.</b></p> <p><b>a) Most of the fertilizer or manure is applied at the beginning of the growing season as a top-dress.</b> <input type="checkbox"/></p> <p><b>b) Most of the fertilizer or manure is split applied; usually an initial application of 50% or less at the start of the growing season and then applied as needed after one or more grazing events during the year except following the last one of the growing season.</b> <input type="checkbox"/></p>	

### Salinity, Sodicity, and Irrigation Management

<b>10</b> Do you have any Salinity or Sodicity (alkaline soils or seeps) concerns on your pastureland? If "NO", skip to Question 11.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>10.1</b> Do you manage saline seeps discharge areas to maintain and/or improve existing salt tolerant vegetation?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>10.2</b> Do you manage nutrient application (type and rate) and irrigation based on your soil and irrigation water properties for your saline or sodic soils?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>11</b> Do you use irrigation on your pastureland? If "YES", answer Questions 11.1 - 11.3.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>11.1</b> Do you measure the amount of water you use to irrigate?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>11.2</b> Do you schedule your irrigations with some form of soil moisture or evapotranspiration monitoring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>11.3</b> Has your system been tested to measure distribution uniformity and changes made based on the results of the tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No

# Conservation Measurement Tool

## Rangeland Existing Activity Conservation Performance

<b>Rangeland</b>		Enter Acres of Rangeland: <input style="width: 80px; height: 25px;" type="text"/>
<b>1</b>	<b>Do you have an adequate grazing and roughage supply to meet forage demands of livestock and wildlife?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>2</b>	<b>CHOOSE ONE (a-d) Grazing Management level BELOW</b>	
	a) Rangeland is heavily grazed (more than 65% use).	<input type="checkbox"/>
	b) Stocking rates are managed to achieve proper forage utilization. Rangeland is moderately grazed (35-65% use) with even grazing distribution.	<input type="checkbox"/>
	c) Stocking rates are managed to achieve proper forage utilization. Rangeland is moderately grazed (35-65% use) with some ungrazed or lightly grazed patches.	<input type="checkbox"/>
	d) Rangeland is lightly grazed (less than 35% use) with numerous ungrazed areas creating a patchy appearance.	<input type="checkbox"/>
<b>3</b>	<b>From the choices below (a-d) select the one that best describes the mix of plants growing on your rangeland.</b>	
	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.	<input type="checkbox"/>
	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.	<input type="checkbox"/>
	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.	<input type="checkbox"/>
	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.	<input type="checkbox"/>
<b>4</b>	<b>Do you have watering facilities such as tanks, troughs, etc.?</b> <b>If "NO", skip to Question 5.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<b>How many of your Watering Facilities</b> (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%	<input type="checkbox"/>
	b) 25 to 50%	<input type="checkbox"/>
	c) 51 to 75%	<input type="checkbox"/>
	d) more than 75%	<input type="checkbox"/>

<b>5 Do you apply any brush management? If "NO", skip to Question 6</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>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.</b>	
<b>a) Woody species are not managed for wildlife. There is an evident browse line; or, brush is totally eliminated with brush management measures.</b>	<input type="checkbox"/>
<b>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.</b>	<input type="checkbox"/>
<b>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.</b>	<input type="checkbox"/>
<b>6 Do you have any fences constructed with considerations for wildlife species and their movements? If "NO", skip to Question 7.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>How much of your fencing meets state wildlife agency or NRCS standards with considerations for wildlife species and their movements?</b>	
<b>a) less than 25%</b>	<input type="checkbox"/>
<b>b) 25 to 50%</b>	<input type="checkbox"/>
<b>c) 51 to 75%</b>	<input type="checkbox"/>
<b>d) more than 75%</b>	<input type="checkbox"/>

**Water Bodies, Erosion, & Runoff Information**

<b>7 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.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>8 Are livestock concentration areas such as feeding, watering and mineral areas located away from water bodies and water courses or have buffers to protect the water bodies and water courses from unfiltered runoff? If there are no water bodies or water courses on or adjacent to your rangeland, select Yes.</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No

### Pest Management Information

<b>9</b> Do you apply any pesticides on your rangeland acres? If "NO", skip to Question 10.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>9.1</b> Select the choice (a-c) below that best describes how you manage pests on your rangeland. <b>a)</b> Pesticides are applied <b>without using any Integrated Pest Management (IPM) system.</b> <b>b) Some components of an IPM system are utilized</b> , such as using pest-free seeds and transplants, feeding hay without any noxious weed seeds, spot spraying, individual plant treatment, banding, directed spraying, hand hoeing, using pest-resistant varieties, selecting non-invasive forage species, pest scouting, and biological pest controls. <b>c) A full IPM system is utilized</b> with scouting and economic thresholds to manage pests and reduce pest management environmental risk, utilizing pest suppression techniques (including pesticide applications) only after monitoring (including pest scouting) verifies that a pest population has reached an economic threshold.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>9.2</b> Do you use an <b>environmental risk screening tool (such as WIN-PST or similar)</b> to reduce pesticide risk to soil and water resources?	<input type="checkbox"/> Yes <input type="checkbox"/> No

### Salinity and Sodicty Management

<b>10</b> Do you have any <b>Salinity or Sodicty (alkaline soils or seeps) concerns on your rangeland acres?</b> If "YES", answer Question 10.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>10.1</b> Do you manage saline seeps discharge areas to maintain and/or improve existing salt tolerant vegetation?	<input type="checkbox"/> Yes <input type="checkbox"/> No

# Conservation Measurement Tool

## Ag Land - Water Bodies/Water Courses Existing Activity Conservation Performance

<p><b>1 Do you have any WATER BODIES (lakes, ponds or wetlands) on or adjacent to your property?</b> Wetlands farmed under natural conditions or farmed wetlands do not fit under this category.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>2 Consider all the lakes/ponds/wetlands on your property. What percentage of the total boundary of these areas has at least a 33-foot wide zone of diverse vegetation that is native to the site or introduced species that have become naturalized between the edge of the waterbody and adjacent land? This could be an established filter strip or other riparian buffer.</b></p> <p>a) less than 25%</p> <p>b) 25% to 50%</p> <p>c) 51% to 75%</p> <p>d) more than 75%</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p><b>3 Does upland runoff (surface or groundwater) empty directly—without filtration through a vegetated buffer—into any of the lakes/ponds/wetlands on your property?</b></p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>4 Do you have any WATER COURSES (ditches, sinkholes, intermittent or perennial streams, or rivers) on or adjacent to your property?</b> If "NO", skip to Question 7.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>5 Do you pump (directly or indirectly) or divert water from a river or stream? If "Yes", select appropriate choice below.</b></p> <p>a) Water withdrawal completely dewater stream habitat.</p> <p>b) Water withdrawal diminishes streamflow; diversions or pumps are unscreened (for aquatic animals).</p> <p>c) Water withdrawal diminishes streamflow; diversions or pumps are screened (for aquatic animals).</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p><b>6 Do you have instream structures on your property, such as diversion dams, road crossings (bridges or culverts), low-water crossings, and pumping stations. If "YES", select appropriate choice below.</b></p> <p>a) Structure blocks aquatic organisms from passing upstream or downstream during all or part of the year.</p> <p>b) Structure could block aquatic organisms from passing upstream or downstream part or all of the year.</p> <p>c) Structure does not block aquatic organisms from passing upstream or downstream at any time of the year.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**7 Consider all water courses on your property, select the choice below which best describes 90% of their total length. These areas could be established filter strips or other riparian buffers.**

**a)** The water course has little or no vegetated riparian area. Agricultural activities take place adjacent to the streambank within the state specified minimum distance for a water quality buffer.

**b)** The water course is well vegetated. The width of the vegetation meets state minimum buffer width for water quality protection.

**c)** The water course is well vegetated. The width exceeds state minimum buffer width for water quality protection AND is at least 33 feet wide or 2.5 times as wide as the stream channel (up to a maximum of 100' for large streams).

**8 Consider all water courses on your property and select the choice below which best describes your situation. Select the condition that best describes 90% of the total length of the water courses on your property.**

**a)** Existing vegetation is dominated by a single species and is primarily non-native and may include invasive species.

**b)** Existing vegetation is diverse and is primarily non-native to the site. Invasive species are not present.

**c)** Existing vegetation is diverse and is predominately native to the site.

**9 Do you maintain a minimum setback of 33 feet or greater when applying manure or pesticides from all intermittent streams/ditches, perennial streams, ponds/lakes, surface water inlets and open sink holes? Spot spraying within the setback is permitted according to the pesticide label.**

Yes

No