

Montana Agricultural Land Classification and Valuation Manual

2025-2026



PROPERTY
ASSESSMENT
DIVISION
MONTANA



Department of Revenue

2025-2026

Montana Agricultural Land Classification and Valuation Manual

January 1, 2025 - December 31, 2026

Compiled By

Property Assessment Division

Mitchell Building

125 N. Roberts Street

PO Box 8018

Helena, Montana 59601

TABLE OF CONTENTS

- INTRODUCTION 4
- APPRAISER CERTIFICATION 4
- STATUTES AND ADMINISTRATIVE RULES 4
- OWNERSHIPS 5
 - Easements and Deeded Right-of-Ways 5
 - Conservation Easements 5
 - Land for a Public Use 6
 - Water Boundaries 6
 - Island Ownership in Rivers 7
 - Contiguous vs. Noncontiguous Parcels 7
- APPRAISAL PROCESS 10
- PRODUCTIVITY 12
 - Soil Surveys 12
 - General Productivity Determination Information 12
 - Non-Irrigated Farmland 13
 - Non-Irrigated Continuously Cropped Hay Land 14
 - Irrigated Farm Land 14
 - Grazing Land 15
 - Carrying Capacity Expressions 16
 - Animal Units (AU) 16
 - Animal Unit Months (AUM) 16
 - Animal Unit Months Per Acre (AUM/Ac) 17
 - Acres Per Animal Unit Month (Ac/AUM) 17
 - Calculating Carrying Capacity 17
- AGRICULTURAL ELIGIBILITY 19
 - Eligibility Requirements 20
 - Income Sources 21
 - Ownerships Less Than 20 Acres in Size 21
 - Ownerships of 20 Acres or More But Less Than 160 Acres in Size 21
 - Contiguous Ownerships 160 Acres or More in Size 21

Noncontiguous Parcels Under One Ownership.....	22
Alternatives to the \$1,500 Income Requirement.....	22
Consumption of Products.....	22
Grazing Land Requirement.....	22
Production Failure or Marketing Delay.....	23
Family Relationships.....	23
Provisional Classification with Ownership Transfer.....	23
CLASSIFICATION.....	24
Non-irrigated Summer Fallow Farm Land.....	25
Non-irrigated Continuously Cropped Farm Land.....	25
Specialty Crop Farm Land.....	26
Non-irrigated Continuously Cropped Hay Land.....	26
Irrigated Farmland.....	27
Grazing Land.....	27
AGRICULTURAL LAND VALUATION.....	27
Commodity Price Information.....	28
Base Crops.....	28
Crop Share.....	28
Gross Income.....	29
Capitalization Rate.....	29
Irrigated Land Valuation.....	30
Minimum Value of Irrigated Land.....	30
NONQUALIFIED AGRICULTURAL (NQ) LAND.....	31
NONPRODUCTIVE PATENTED MINING CLAIMS (NPPMC).....	31
HOMESITES.....	32
Reference the following tables for homesite classification:.....	34
CADASTRAL INFORMATION.....	36
Montana Cadastral Map.....	36
GEOGRAPHIC INFORMATION SYSTEM (GIS).....	36
IMPORTANT DATES.....	37
Appraisal Date.....	37
Classification and Appraisal Notice.....	37

Application for Agricultural Land Classification	37
Appendix A	39
Agricultural Property Valuation Laws	39
Agricultural Property Valuation Administrative Rules.....	40
Appendix B	41
2025-2026 -Examples of the Agricultural Land Productivity Valuation Formula.....	41
Summer Fallow Farm Land.....	41
Non-Irrigated Hay Land.....	41
Grazing Land	42
Irrigated Land.....	42
CC Farm Land	42
Appendix C - HISTORY	43
The State Constitution	43
2009 Reappraisal	43
GIS	43
Phase-In	44

INTRODUCTION

Agriculture is the science, art, and business of cultivating land, producing crops, and feeding, breeding, and raising livestock.¹ It is also referred to as farming or ranching. The term 'agricultural' means the production of food, feed, livestock, poultry, bees, biological control insects, fruits, and vegetables, as well as sod, ornamental, nursery, horticultural crops, and fiber commodities that are raised, grown, or produced for commercial purposes. It also includes the raising of domestic animals and wildlife in domestication or a captive environment. 15-1-101, MCA.

In Montana, the term 'livestock' means cattle, sheep, swine, goats, horses, mules, asses, llamas, alpacas, bison, ostriches, rheas, emus, and domestic ungulates. 15-1-101, MCA, and ARM 42.20.601.

Agricultural land is land that meets the eligibility requirements for agricultural classification found in the Eligibility section and 15-7-202, MCA. Valuation of agricultural land in Montana is based on value. 15-7-201 and 15-7-203, MCA. This means that value is based on what an average Montana farmer or rancher could produce on that land of a specific base crop.

APPRAISER CERTIFICATION

The department trains its agricultural appraisers through an Agricultural Land Classification and Appraisal (ALCA) class. [15-7-106, MCA](#), and [ARM 42.18.207](#). Agricultural appraisers must generally complete certification as a residential appraiser, complete ALCA training, pass the ALCA exam, and complete a one-year apprenticeship under a department-certified agricultural appraiser.

STATUTES AND ADMINISTRATIVE RULES

The department classifies and values more than 50 million acres of privately-owned agricultural land in Montana and is charged with the general administration and supervision of property assessment laws. Montana Code Annotated, Title 15, Chapters 6 through 8, contain the statutes controlling the appraisal and classification of agricultural land.

Montana law currently requires the department to value all agricultural property once every two years and ensure that all property assessments comply with the law, are fair and equitable, and accurately represent value. The department values agricultural land based on its productive capacity. [15-7-111](#) and [15-7-201, MCA](#).

The department must maintain current classification of all taxable lands and provide a general and uniform method of classifying land in the state. [15-7-101](#) and [15-7-103, MCA](#).

¹ American Heritage dictionary of the English language, Fifth Edition.

The department uses the same appraisal methods and assessments statewide. This provides equalization across the state, with similar properties having substantially equal taxable values. [15-7-112, MCA](#).

The department follows a general appraisal process to first identify and confirm the owner of the property, classify, and confirm the property is eligible for agricultural classification, subclassify the property according to its agricultural use, and value the property for tax purposes.

OWNERSHIPS

Eligibility for agricultural classification is based on ownership of the parcel(s). Ownership is defined by the International Association of Assessing Officers (IAAO) as the rights to use the property, to the exclusion of others. Fee simple ownership includes all the rights and interests in the property except governmental rights such as taxation, eminent domain, police power, and escheat.

Easements and Deeded Right-of-Ways

An easement is a property right held by one party to use specific land owned by another party and entitles its holder to a specific limited use or enjoyment. An easement may be created and held by either private or public entities. The easement may be temporary or held in perpetuity.

Easements are not specifically addressed in the agricultural valuation statutes. Road, irrigation ditch, or utility easements that do not transfer title to such rights-of-way are taxable to the owner of record and will be classified as adjoining agricultural land. Easements are valued according to the productivity of the underlying soil(s). [15-7-203](#) and [15-7-206, MCA](#); [ARM 42.20.610](#).

Private ownership boundaries that follow an easement such as a road or street go to the centerline of the easement, unless stated differently in the deed. A deeded right-of-way is conveyed through a deed or other instrument. A record of the ownership conveyance must be available in the local county clerk and recorder's office. An example of a deeded right-of-way is a state highway. These conveyances, may be done without a survey defining boundaries, state the number of acres in the right-of-way. In these cases, the right-of-way acreage is placed into a right-of-way classification on the parcel record. When a survey defines the boundaries, the right-of-way acreage is deducted from the original ownership and placed into a right-of-way parcel. If the deeded right-of-way splits two or more ownerships, such as along a deeded county road, the department will deduct proportional amounts of acreage from each ownership. [ARM 42.20.610](#).

Conservation Easements

A conservation easement is an agreement between a landowner and a land trust agency, either private or public where the landowner voluntarily relinquishes any or all rights to construct improvements upon the land, to substantially alter the character of the land, or permit construction of improvements, except as expressly stated in the documents establishing the easement.

[76-6-104, MCA](#). A conservation easement is an acquisition interest in land less than fee resulting in the transfer of ownership rights, interests, and benefits for conservation purposes, by limiting or prohibiting one or more specific uses listed in [76-6-203, MCA](#). The deed for a conservation easement gives the oversight of the land's use to a governmental agency or a private non-profit conservation

organization and limits the rights of subsequent property owners. In Montana, the easement may be in perpetuity or for a term of at least 15 years. The department's Geographic Information System (GIS) staff verifies and maps conservation easements, adds them to the statewide GIS layer, and sends the information to the Montana State Library.

The Montana Open-Space Land and Voluntary Conservation Easement Act, adopted in 1975, provides property tax advantages are not granted due to the establishment of a conservation easement. The land must be classified based on the restricted uses permitted by the easement. But this classification, if it is only because of the creation of the conservation easement, cannot result in a property valuation lower than it had prior to the easement. This means Class four property cannot be reclassified as Class three or Class ten because the property is placed into a conservation easement.

For example, a landowner that places a conservation easement on a parcel of tract land cannot be reclassified to Class three because of the easement. The property must still meet agricultural eligibility requirements.

Although rare, a conservation easement may cause a property classification change if the easement prohibits agricultural use in its entirety. [ARM 42.20.156](#).

If the conservation easement is properly renewed within 15 days of its expiration, the department will not reassess the land. [76-6-208, MCA](#).

Land for a Public Use

Land classified as agricultural land that has been reduced in size, by a governmental entity, for a public use will not lose its agricultural classification due to the size reduction, [15-7-202, MCA](#). An example is a 20-acre parcel of land classified as nonqualified agricultural land (NQ) is reduced to 18 acres to allow the widening of a state highway. This parcel continues to be classified as NQ. Public uses are described in [70-30-102, MCA](#).

Water Boundaries

Private ownership boundaries described by a non-navigable stream, river, lake, or pond are set at the midpoint or thread of the stream. Private ownership boundaries that follow a navigable stream, river, lake, or pond are along the low-water mark of the stream bed, river, or lake, or pond.

[70-16-201, MCA](#).

In some cases, the centerline or midline of a river or stream denotes a county boundary. If the river or stream channel meanders from year to year, the county boundary does not change with the alteration of the centerline or midline.

Ownership boundaries may change due to alterations in a stream or riverbed. When the stream deposits silts and soils, a slow, imperceptible growth called accretion takes place. Under Montana law, accreted land belongs to the owner of the property benefiting from the accretion.

[70-18-201, MCA](#).

The department must have validation from a court and any information necessary to update the applicable ownership boundaries or taxable acreage due to any of these circumstances. This ensures that the boundary change is valid and avoids litigation of ownership boundaries. [70-18-206, MCA](#).

Island Ownership in Rivers

Islands located in navigable streams belong to the state unless a private party holds the title. This includes abandoned stream beds of navigable streams and lakes, all islands in these streams that have not been surveyed, and any lands that were previously a part of an island in a navigable stream or lake. [70-18-203, MCA](#).

Islands located in non-navigable streams belong to the property owner that owns that side of the stream. If the island straddles the centerline of the stream, the island ownership boundary is divided by a continuation of the stream center line. [70-18-204, MCA](#). When a stream cuts a new channel and forms an island, the land remains in the same ownership as it was prior to becoming an island. [70-18-205, MCA](#).

Ownership of an island created by accretion is given to the state if the following steps are taken:

1. The state claimed ownership by filing quiet title.
2. The court awarded the ownership to the state.

Contiguous vs. Noncontiguous Parcels

To determine the amount of land attributable to one owner, one must understand the concepts of contiguous and noncontiguous. The department criteria for contiguous parcels are that the parcels must be under one ownership and share a common boundary. Contiguous parcels can be separated by any of the following:

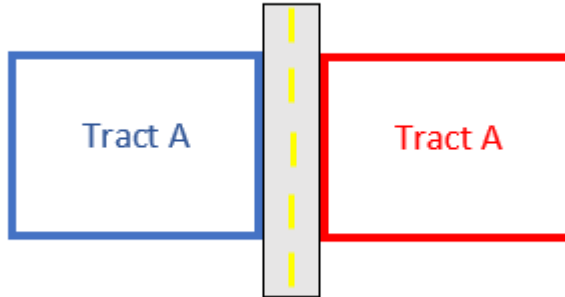
1. rivers and streams
2. deeded roads and highways
3. railroad lines
4. federal or state land that is leased from the federal or state government by the owner whose land is physically touching the federal or state land.

All land in the same legally defined parcel is contiguous in ownership. In other words, a parcel may include man-made features such as easements and county boundaries, or natural features such as streams, and still be contiguous. [ARM 42.20.601](#).

The following examples demonstrate the concepts of contiguous and noncontiguous parcels.

Example 1

A landowner owns two, 10-acre tracts of land. A highway is located between these two tracts.



Both parcels are under one ownership.

1. The parcels would touch if not separated by the highway.

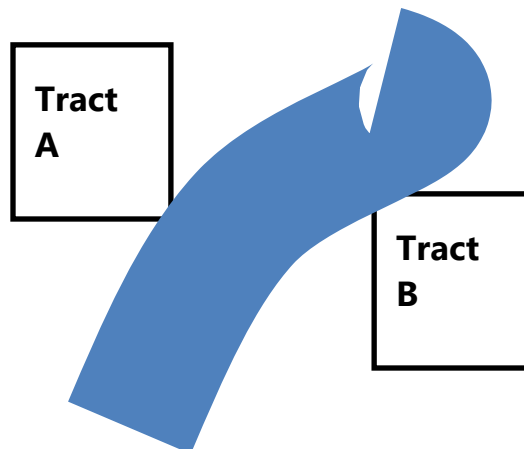
These parcels are contiguous and under one ownership for the entire 20 acres.

Example 2

A landowner owns two, 10-acre tracts of land under one ownership. The Missouri River separates the two tracts. One tract is in Cascade County and the other tract is in Chouteau County.

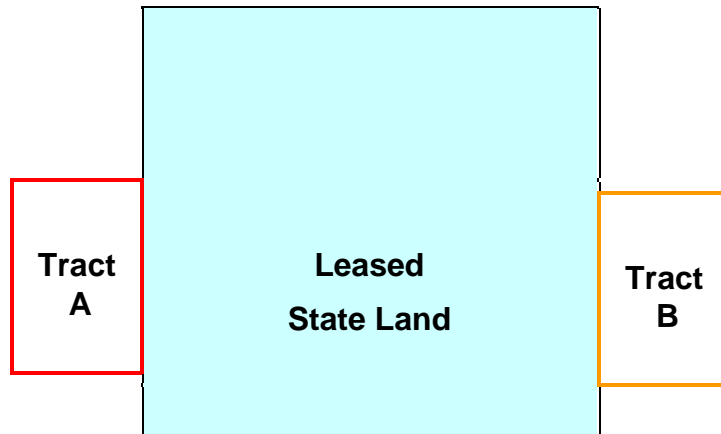
1. Both parcels are under one ownership.
2. The parcels would touch if not separated by the river.

The parcels are contiguous, and the landowner's total ownership is 20 acres in size.



Example 3

A landowner owns two, 80-acre parcels of land. The parcels are separated from each other by a state section of land. The landowner leases the section of land from the State of Montana.

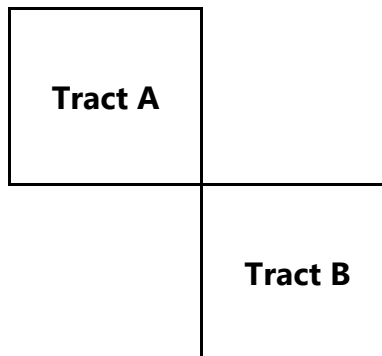


1. Both parcels are under one ownership.
2. The parcels would touch if not separated by the government land which is leased by the landowner.

Tracts A and B are contiguous, so the landowner's contiguous ownership is 160 acres in size.

Example 4

A landowner owns two, 10-acre tracts of land. The tracts touch each other at one corner.

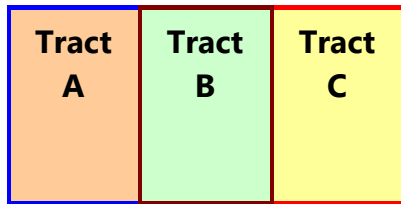


1. Both parcels are under one ownership.
2. The parcels touch each other.

The parcels are contiguous making the landowner's contiguous ownership 20 acres in size.

Example 5

John Doe owns Tract A and Tract C. John Doe's wife, Mary Doe owns Tract B.



1. John Doe is one ownership for parcels A and C.
2. Mary Doe is a different ownership for parcel B.

Tract A and Tract C, owned by John Doe, are noncontiguous to each other.

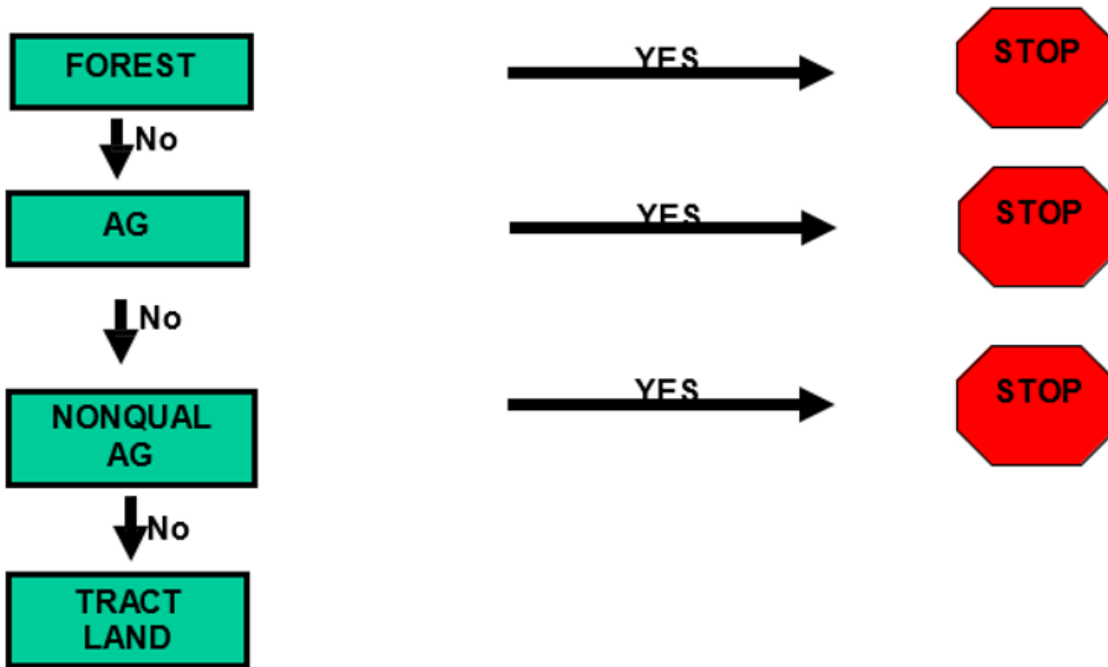
APPRAISAL PROCESS

The market value of many agricultural properties is influenced by speculative purchases that do not reflect the productive capability of the agricultural land. Montana law intends that bona fide agricultural properties be classified and assessed at a value that is exclusive of values attributed to urban influences or speculative purposes. [15-7-201, MCA](#).

The department classifies land according to its use. Montana's land classifications include:

1. class three agricultural land
2. class three nonproductive patented mining claims
3. class three nonqualified agricultural land
4. class four land
5. class five land
6. class ten forest land
7. class thirteen land
8. class fourteen land
9. class seventeen land
10. class eighteen land

Does Land meet Classification Requirements?



When agricultural land use changes occur, an appraiser must review information provided by the landowner and aerial photos to identify the field boundaries associated with each land use.

The appraiser must identify the following agricultural classifications:

- F non-irrigated summer fallow farm land
- C non-irrigated continuously cropped farm land
- I irrigated land
- G grazing land
- W non-irrigated continuously cropped hay land
- S specialty crop

PRODUCTIVITY

The department appraises agricultural land based on its productivity. [15-7-103, MCA](#). The department determines each soil's productive capacity or ability to produce crops or forage to sustain livestock in the specific environment of the subject location under typical management. Productivity is determined based on the characteristics of each soil using the U.S. Department of Agriculture's (USDA) Natural Resource Conservation Service (NRCS) Soil Survey. [ARM 42.20.604](#).

Soil Surveys

A soil survey is a scientifically based detailed analysis and report of the characteristics and properties of the different components of the soils within a given area. A uniform and consistent system for determining soil productivity requires a strict set of procedures. Those procedures are defined and detailed in the NRCS Land Capability Classification System.

The NRCS provides information for determining agricultural land productivity by the soil map and data containing estimated crop yields of grain and alfalfa hay, estimated carrying capacity for non-irrigated domestic pastures, and forage production on native, non-irrigated rangeland.

The NRCS' productivity information is based on a high level of management and ideal climatic or environmental conditions. However, the department must determine the agricultural income based on the production of a typical Montana farm or ranch. As a result, most productivity estimates from the soil survey are adjusted to reflect productive capacity based on typical management practices, type of agricultural use, and county or region in Montana. [ARM 42.20.604](#).

Individual soil surveys are normally limited to one county. Updated soil surveys can be located at <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>.

Soils, the basis of production, are a product of climate, living organisms and parent material. Soils consist of water, air, and solid material, including sand, silts, and clays. Soil materials are arranged in layers called soil horizons. The collective sequence of soil horizons is called a soil profile.

Soils high in soluble salts such as sodium chloride, magnesium sulfate and calcium chloride, are referred to as saline soils. Soils high in sodium are referred to as sodic soils. Saline and sodic soils have poor physical condition and high pH, which make them difficult to manage and less productive.

Topography, slope, and aspect all influence soil characteristics and soil moisture. Thus, topography may influence soil productivity. Soil depth may also impact crop and livestock production. Shallow soils have lower moisture retention than deeper soils. As a result, deeper soils may influence production during dry years.

Different soil types don't necessarily have different levels of production. Farming techniques may vary from one soil to another resulting in similar yields even though the soils are different in many aspects. Similar soils in an area generally show similar responses in production due to a change in farming methods.

General Productivity Determination Information

Determining the productivity of agricultural land is the process of using the soil survey information and use of the property to assign a productive value or yield per acre that represents the long-term

average agricultural production capacity for a given acre of land. When applicable for an area, an adjustment to the soil survey productivity estimate is determined and applied throughout the area. Adjustments may be made when producers within a general area provide sufficient evidence that the productivity estimate as determined in the soil survey does not accurately reflect production levels for the area.

Soil productivity is the output of a specified plant or group of plants under a defined set of management practices. In general, if irrigation is an optional practice, yields are given with and without irrigation. Productivity for farm land can be expressed in quantity of a product per unit land area, such as bushels or tons per acre. For grazing land, productivity is expressed as the carrying capacity of standard animal unit month (AUM) per unit area per season or year. The soil survey productivity may also be expressed as a rating or index related to either optimum or minimum yields, or it may be indexed to a set of soil qualities that relate to potential productivity. Productivity indices have the advantage of being less vulnerable to changes in technology than are expressions of productivity based on yields. Productivity determination is based on the production information contained in the NRCS soil survey.

When calculating productivity, the department considers typical management practices. Good managers are not penalized with above average productivity levels and poor managers are not rewarded with below average productivity levels. For example, when most farms in an area are using accepted management practices and achieving similar yield responses on a particular soil type, the productivity determination fits the production received by the majority.

Any soil type in an acreage of reasonable size is assigned its own productivity if a measurable variance in productive capacity is determined. Generally, five acres is the minimum resolution for productivity differences within a use class.

Land under farm buildings, irrigation ditches, road easements, water bodies, and brush-lined creeks are valued based on the productivity rating set for adjacent or surrounding land. Land under farm buildings and other man-made developments is classified as grazing land and assigned a productive value based on the underlying NRCS soil survey information.

Non-Irrigated Farmland

Non-irrigated farmland includes non-irrigated summer fallow farmland and non-irrigated continuously cropped farmland. These lands produce farm crops without applying additional water to the land.

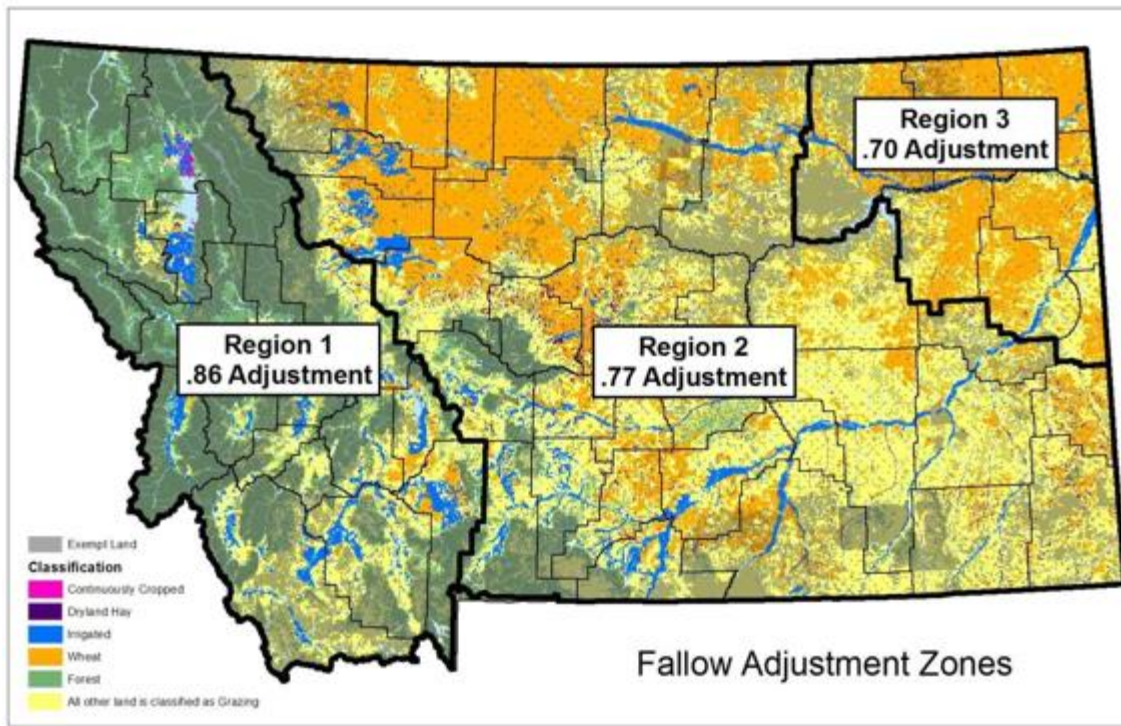
Non-irrigated farmland productivity is determined based on bushels of spring wheat that can be produced per acre and the county in which the land sits. [15-7-201, MCA](#); [ARM 42.20.604](#).

Spring wheat is set as the base crop in statute. Historically it was the most common small grain crop grown in Montana in both number of acres planted, and number of bushels produced. Spring wheat grows in all locations of the state where other small grains have limitations. Although spring wheat can be grown in all locations, it is not always the crop of choice.

The department uses the NRCS soil survey as the basis for spring wheat productivity. The productivity information from the soil survey is adjusted to determine the productive capacity under typical management. The state is divided into three regional growing areas, each with an adjustment factor. This adjustment factor is determined by comparing the soil survey rating and the twelve-year weighted average of spring wheat production as published for the counties in the region as reported to USDA National Agricultural Statistical Services (NASS) Montana. The department adjusts the

NRCS productivity ratings by the appropriate regional factor to calculate an average production under typical management.

The following map shows the current regional non-irrigated farm land adjustments.



Non-Irrigated Continuously Cropped Hay Land

Non-irrigated continuously cropped hay land is also called "dry land hay" or "wild hay". This land classification is described in more detail in the Classification section.

Productivity of non-irrigated continuously cropped hay land is based on the total production of vegetation as published in the NRCS soil survey. The soil survey publishes data for total dry-weight production for each soil under favorable, normal, and unfavorable years. The department uses the midpoint of total dry-weight production for normal and unfavorable years to determine the productivity of non-irrigated hay land. This productivity is divided by 2,000 to arrive at a value of tons per acre.

When there is a naturally high, water table present, sub-irrigation occurs. Sub-irrigation often results in higher productivity. Sub-irrigated hay fields are classified as non-irrigated hay land, rather than irrigated land.

Fertilization is not considered a typical management practice for non-irrigated hay land.

Aftermath grazing refers to the use of a hay field for livestock grazing after the final hay harvest of the year and is considered a typical management practice.

Irrigated Farm Land

Irrigated farm land is tillable crop land that receives water applications the majority of the years and does not include irrigated grazing land. Irrigated grazing land is further described in the Classification section.

The productivity of tillable irrigated farm land is based on the capability of the soil to produce alfalfa hay as provided by the NRCS soil survey. Alfalfa hay is set as the base crop because it is the predominant irrigated crop grown in Montana. Operators often include alfalfa hay production in their cropping sequence and are knowledgeable about alfalfa hay productivity.

Irrigation generally increases the productivity rating of the land. For example, irrigated hay land typically produces two to three cuttings annually, while non-irrigated hay land generally receives only one cutting per year. Fertilization can increase productivity and is considered a typical management practice for irrigated land.

The department does not change the productivity rating of irrigated land due to a different irrigation system. The productivity estimate will be the same regardless of the type of irrigation system being used.

Aftermath grazing may occur on irrigated farm land and is considered a typical management practice.

Among other factors, the NRCS productivity estimate is based on alfalfa at its highest point of production. The department bases valuation on the typical production so this rating may need to be adjusted. The adjustments are based on producer input related to the amount of water regularly applied to the land and average productivity. Adjustments, based on the percent of difference detected between the soil survey productivity rating and the reported productivity, are applied to the NRCS soil survey productivity for irrigated land within each county.

Grazing Land

Grazing land is land used primarily for livestock forage. The majority of Montana's agricultural land is grazing land, mostly native rangeland. The productivity of grazing land is based on the carrying capacity or number of animal unit months (AUM) (see below) the land is capable of sustaining as published by the NRCS soil survey. The rating from the NRCS is based on what the soil would have produced in its natural state when all factors associated with productivity were in natural equilibrium. It is the amount of grazing that a pasture can sustain due to the qualities of the soil and the environment where it occurs. [ARM 42.20.601](#).

Stocking rate represents the number of animal units (AU) (see below) an operator actually places on the land. Stated in other terms it is the number of specific animals grazing or utilizing a piece of land for a specific length of time. Carrying capacity is not always equal to the actual stocking rate. The department does not consider the producer's stocking rate when classifying or valuing grazing land.

Carrying capacity may be increased by management practices such as pasture rotation and developing water systems. Fertilization, weed spraying, and mechanical treatments are not considered typical management practices for grazing land. While management decisions may improve rangeland carrying capacity, the department does not adjust the carrying capacity based on management or stocking practices.

Grazing land productivity is based upon the soil's ability to produce palatable plants for livestock forage. Livestock graze on both poor and good rangeland. They prefer the bottomlands and areas near water, while grazing less on areas with steep hillsides, less desirable forage, and areas located at distance from their water source. Livestock grazing preferences depend on plant palatability, nutrition value, stage of plant growth, stocking rate, season of use, relative abundance, availability, and site location.

Overgrazing occurs when the stocking rate is greater than the carrying capacity of the land. Undergrazing occurs when the stocking rate is less than the carrying capacity of the land. The department does not adjust the land productivity rating due to poor management practices such as overgrazing or undergrazing.

Carrying Capacity Expressions

Productivity and carrying capacity are discussed in acres per animal unit month (Ac/AUM) or total animal unit months (AUM). These terms describe relationships between the number of animals and the acres grazed.

<u>Term</u>	<u>Abbreviation</u>	<u>Description</u>
Animal Units	AU	number of animals
Animal Unit Months	AUM	amount of forage needed to sustain one animal unit for one month
AUM per Acre	AUM/Ac	number of animal unit months that one acre can support
Acres per AUM	Ac/AUM	number of acres required to support one animal unit for one month
Total AUM	AUM	number of animal unit months that the land area can support

Animal Units (AU)

An AU, the base measurement for productivity, is one cow-calf pair. A cow-calf pair consists of a 1,200-pound cow with a calf up to six months old. [ARM 42.20.601](#).

Animals are added together to determine the total AUs. For example, a rancher has 50 cows each with a calf for a total of 50 AUs.

Animal Unit Months (AUM)

An AUM is the amount of vegetation required to feed one AU for one month. It is also a product of AUs and grazing time. This relationship is stated in the following equation and possible combinations that result.

$$\text{AUM} = \text{AUs} \times \text{months of grazing}$$

For example, a pasture that supports 12 AUM could be used in any of the following combinations:

- 12 animals for 1 month or 1 animal for 12 months
- 6 animals for 2 months or 2 animals for 6 months
- 4 animals for 3 months or 3 animals for 4 months

Grazing seasons are based on the typical period that livestock could graze without causing injurious effect to the overall health of the vegetation. The grazing season may extend from before the spring green-up to beyond the fall frost. The length of the grazing season and the amount of time that livestock could graze the land impact the number of AUs that a parcel of land can support. The department makes no determination on the length of time that livestock can graze on the land.

Generally, the department's total carrying capacity rating and the producer's stocking rate have a close correlation. The department does not determine which combination of time and AUs is best as this is the producer's management decision.

Animal Unit Months Per Acre (AUM/Ac)

The department uses the term AUM/Ac when determining the productivity of grazing land. AUM/Ac expresses carrying capacity in the number of months that an AU can graze on one acre of land. AUM/Ac are determined by dividing the AUMs by the number of acres that are being grazed.

Acres Per Animal Unit Month (Ac/AUM)

Productivity and carrying capacity are often discussed in Ac/AUM. This term is another expression of the relationship between the number of AUs and the acres grazed for one month. Acres/AUM represents the acres that are required to support one AU for one month.

Calculating Carrying Capacity

The department uses the NRCS soil survey for the pounds of total dry-weight production to determine the carrying capacity for grazing land. The soil survey publishes total dry-weight production estimates for a favorable year, normal year, and unfavorable year. The department uses the total dry-weight production estimate from the unfavorable year. This helps account for non-palatable herbage which may be included in the soil survey estimate. It also accounts for the fact that most privately owned rangelands in Montana do not exist in perfect ecological conditions. The Montana State University, College of Agriculture, recommends the use of this method.

The department uses 0.043 AUM/Ac as the lowest productivity placed on grazing land as recommended by the 2006 Governor's Agricultural Land Valuation Advisory Committee (Committee).

The total dry-weight production estimate from the soil survey is adjusted to reflect the amount of forage that is consumed by livestock. The department uses a 25% livestock utilization factor. Ranchers typically allow half of the available forage to remain for sustaining the vegetative health of the land. This is referred to as the "take half-leave half" grazing philosophy and is a widely accepted method of managing grazing lands. It is intended to leave enough of the plant to allow for vigorous regrowth. The department assumes that half of the remaining herbage is not available for livestock use due to trampling, insects, wildlife, or other damage, leaving one-quarter of the total herbage available for livestock consumption.

Example:

Total dry-weight production from the unfavorable year = 1,500 pounds

Take $\frac{1}{2}$, leave $\frac{1}{2}$ management = 750 pounds

$\frac{1}{2}$ wasted = 375 pounds (amount of forage available to livestock)

The department converts this estimate of forage produced into AUM/Ac using the following four steps.

1. The feed requirements of an AU are calculated based on a **daily** feed requirement of three percent of the AU's weight. This equals 36 pounds of forage.

$$AU \text{ Daily feed} = 1200 \text{ pounds} \times 3\% = 36 \text{ pounds}$$

2. The daily feed requirement is multiplied by 30.5 days (average days in a month) to convert the daily feed requirement to a **monthly** feed requirement.

$$1 \text{ AUM} = 36 \text{ pounds per day} \times 30.5 \text{ days per month} = 1,098 \text{ pounds.}$$

3. Multiply the amount of total dry-weight production from the soil survey by the livestock utilization factor to determine the forage available for livestock consumption.

$$\text{Total dry weight production (unfavorable year)} \times 0.25 = \text{actual livestock forage}$$

4. Provide the results in the AUM/Ac with the following calculation.

$$\frac{\text{Actual Livestock Forage}}{1098 \text{ Pounds}} = \text{animal unit months (AUMs)}$$

Since the NRCS soil survey data is in pounds per acre, the above calculation results in AUM per acre.

Example of calculating the carrying capacity.

Given:

- Total dry-weight production from the unfavorable year = 880 pounds per acre
- One AUM = 1,098 pounds
- 25% livestock utilization factor

Find: AUM/Acre

1. pounds per acre x livestock utilization factor = livestock consumption

$$880 \times 0.25 = 220 \text{ pounds per acre}$$

2. 220 pounds consumed per acre ÷ 1098 pounds/AUM = 0.20 AUM/Ac

3. Stated another way, it would take five acres of land to support one AU for one month. This expression Ac/AUM is the reciprocal of the previous step, calculated by dividing one by the AUM/Ac.

$$1 \div 0.20 \text{ AUM/Ac} = 5 \text{ Ac/AUM}$$

As shown the terms AUM/Ac and Ac/AUM are reciprocals of one another. In a reciprocal relationship, when one of the expressions is known, the other can be determined by dividing the known expression into one.

Examples of reciprocals:

1. AUM/Ac converted to Ac/AUM

$$1 \div 0.25 \text{ AUM/Ac} = 4 \text{ Ac/AUM}$$

2. Ac/AUM converted to AUM/Ac

$$1 \div 4 \text{ Ac/AUM} = 0.25 \text{ AUM/Ac}$$

This shows the relationship between these expressions. An AU grazes one acre of land for 1/4 of a month. This means that four acres are required to provide one month's forage for the AU.

When the expression AUM is divided by the number of acres in the pasture, the expression AUM/Ac is the result. For example, 20 AU X five months = 100 AUM. The pasture used to graze the livestock is 300 acres. To calculate the expression Ac/AUM, divide the acreage by the AUM (300 Acres ÷ 100 AUM = 3 Ac/AUM).

AGRICULTURAL ELIGIBILITY

Although land may be used in an agricultural manner, it must also meet specific eligibility requirements to receive agricultural land classification for tax purposes. The criteria used depends on the size of the parcel of land. [15-7-202, MCA](#).

Parcel size is important as this determines the various income sources the owner may use to meet the qualifications for agricultural land classification. In general, the parcel size categories are described as:

1. Parcels of land consisting of 160 acres or more under one ownership automatically receive agricultural land classification unless the land is used for other purposes. Owners of these parcels are not required to fill out an Agricultural Land Classification Application (application). These parcels are taxed at the agricultural rate.
2. Parcels of land containing 20 acres or more but less than 160 acres under one ownership are eligible for classification as agricultural land if an application has been submitted and approved. These parcels are taxed at the agricultural rate.
3. Parcels of land containing 20 acres or more but less than 160 acres that do not meet the agricultural eligibility criteria are classified as non-qualified agricultural land (NQ). NQ land is valued at the statewide average productivity of grazing land. These parcels are taxed at seven times the agricultural rate.
4. Parcels of land less than 20 acres in size, under one ownership, are eligible for classification as agricultural land if an application has been submitted and approved. These parcels are taxed at the agricultural rate.
5. If a parcel of land less than 20 acres in size fails to meet the agricultural income and production requirements, it is classified as Class four tract land and receives a market value.

Eligibility Requirements

Agricultural classification is based on the land's ability to produce a minimum of \$1,500 in annual gross income from agricultural products. Land that is used to raise crops for consumption by livestock, poultry, or other agricultural animals rather than for direct marketing, must produce an equivalent of \$1,500 in annual gross income from agricultural products consumed and the livestock must be part of the agricultural operation. Alternatives to meet the minimum \$1,500 annual gross income requirement do exist and are discussed below.

Parcels of land containing less than 160 acres must qualify for agricultural classification through the application process. The land must be used primarily for raising and marketing agricultural products.

Six factors that affect agricultural land eligibility are:

1. the definition of "agricultural"
2. the definition of "under one ownership"
3. the amount of land owned
4. the agricultural income
5. the carrying capacity of grazing land for livestock operations
6. the relationship of the parcel to a family-operated agricultural entity

An applicant for agricultural land classification must prove the land in the application is being used in an agricultural manner and produces \$1,500 in gross income annually. The income must be from an agricultural commodity produced from the land and marketed by the owner, owner's immediate family, agent, employee, or lessee.

If the land is used as a platform for the agricultural production, then the land does not produce the agricultural commodity and is not eligible for agricultural land classification. Examples include crops that are produced in a greenhouse, raised beds, potted soil, and livestock which are fed from external sources to increase the stocking rate of the land. [15-7-202, MCA](#), and [ARM 42.20.620](#).

Acreage is a factor in the income sources allowed when applying for agricultural classification.

Parcels of land 20 acres or more but less than 160-acres may use annual rental or lease payments if:

1. there is proof of agricultural use of the land and the land is capable of sustaining that activity.
2. annual rental/lease payments at a minimum of \$1,500 are received from the federal Conservation Reserve Program (CRP) or a similar program that reimburses the landowner to remove the land from the current agricultural use and place it into a different agricultural use.

Example:

An owner has one 13-acre irrigated parcel with a house and garage. The owner leases the irrigated field for \$5000/year. The lessee produces \$15,000 worth of potatoes. The owner may not use the lease income to qualify for agricultural classification due to the parcel size but may use the production income of \$15,000.

Income Sources

Ownerships Less Than 20 Acres in Size

Documentation of \$1,500 in annual gross income produced by the land must be submitted with the application. Allowable documentation for ownership of less than 20 acres in size include:

1. sales receipts
2. cancelled checks
3. copies of Montana income tax statements
4. other written evidence of sales transactions

Agricultural production or income produced by someone other than the owner can be used to meet the agricultural income requirement.

For contiguous parcels less than 20 acres in size, the owner's source of income may not be from rental, lease, or government payments from programs such as the CRP or a similar program that reimburses the landowner to remove the land from the current agricultural use and place it in another use.

Although lease payments are not allowable sources of income, the agricultural production on parcels less than 20 acres in size produced by a lessee can be used by the landowner to meet the agricultural income requirement. Generally, the market value of the agricultural crops produced on leased land is higher than the actual lease payment involved in the lease agreement.

Ownerships of 20 Acres or More But Less Than 160 Acres in Size

An owner must apply for agricultural classification and provide documentation of income produced by the land. Allowable documentation for contiguous ownerships of 20 acres or more but less than 160 acres in size includes:

1. sales receipts
2. cancelled checks
3. copies of income tax statements
4. other written evidence of sales transactions
5. annual rental or lease payments
6. government payments under the CRP or any similar program that reimburses the landowner to leave their land in a particular agricultural use.

An applicant for agricultural land classification may use the agricultural production or income that is produced from the applicant's ownership by a family member. The agricultural eligibility is based on agricultural production or income produced from land under one ownership. Family members cannot share agricultural production or income from different family ownerships.

Contiguous Ownerships 160 Acres or More in Size

Contiguous parcels under one ownership that consist of 160 acres or more are classified as agricultural unless the land is devoted to a residential, commercial, or industrial use. Owners of these agricultural parcels are not required to prove the agricultural income for purposes of classification.

Noncontiguous Parcels Under One Ownership

Noncontiguous parcels under one ownership may combine income from these parcels to meet the \$1,500 income requirement.

1. Total size of the noncontiguous parcels is irrelevant.
2. Distance between the noncontiguous parcels is irrelevant.
3. All noncontiguous parcels must be part of the same unique ownership.
4. All noncontiguous parcels must be actively devoted to agriculture and an integral part of the bona fide agricultural operation.

As to the department's interpretation and implementation of #4, "integral" as "essential to completeness or formed as a unit with another part." ² A bona fide agricultural operation refers to a functioning agricultural business where the land in fact produces agricultural crops resulting in income to the associated agricultural business. [ARM 42.20.601](#).

The department determines whether a parcel is "integral" to a bona fide agricultural business based on the department's evaluation of relevant facts and circumstances.

Examples:

A fruit orchard's income should not be added to a cattle ranch's income because the orchard is not essential to the ranch's agricultural operations.

A hay field where the hay is used to support cattle, a wheat field where the straw byproduct is used to support cattle, or land used for processing one of those activities.

Alternatives to the \$1,500 Income Requirement

If an application does not include proof of a minimum of \$1,500 in annual gross income, the department will deny the agricultural application except as specifically outlined below.

Consumption of Products

When the agricultural products are consumed by livestock, rather than marketed, the applicant must prove that the land produced the equivalent of a minimum of \$1,500 in annual gross income. If the agricultural products were consumed by livestock, poultry, or other animals in the agricultural operation, a written record of the weight or quantity of feed or plant fiber produced is an acceptable source of proof that the land produced the equivalent of \$1,500 in gross income from the agricultural products that were consumed. The weight or quantity estimate is multiplied by the current commodity price to determine the property's agricultural income. [ARM 42.20.620](#).

Grazing Land Requirement

Grazing land is required to meet a minimum carrying capacity as determined by Montana State University, College of Agriculture. The university determines the AUMs that equate to \$1,500 annual

² Webster's Ninth New Collegiate Dictionary

gross income. This sets the minimum carrying capacity required for grazing land to be classified as agricultural land. [15-7-202, MCA](#), and [ARM 42.20.681](#).

Production Failure or Marketing Delay

If the land has experienced a production failure due to drought or other condition beyond the producer's control for the source year of the application, the department may accept production documentation from the previous year.

If the producer has chosen to delay the marketing of their crop until a future date, the department may accept production documentation from the previous year. [15-7-202, MCA](#).

Family Relationships

The association that an individual property owner has with a family farming or ranching business may be considered when determining agricultural eligibility for parcels of land between 20 and less than 160 acres in size that don't meet the \$1,500 annual gross income requirement on their own.

[15-7-202, MCA](#); [ARM 42.20.682](#).

To qualify a family farm relationship:

1. The parcel must be at least 20 acres in size
2. The parcel must be located within 15 air miles of the family operated farm or ranch
3. The owner of the parcel must also meet the requirements of Option I or Option II:

Option I: At least 51% of the owner's annual Montana gross income is from agricultural production, and the property taxes are paid by a family corporation, family partnership, sole proprietorship, or family trust involved in Montana agriculture, and 51% of the entity's Montana annual gross income is from agricultural production.

Option II: The owner is a shareholder, partner, owner, or member of the family corporation, family partnership, sole proprietorship, or family trust that is involved in Montana agricultural production, and 51% of the person's or entity's Montana annual gross income is from agricultural production.

Provisional Classification with Ownership Transfer

When agricultural property changes owners, the property is classified and assessed as agricultural land by the department for the remainder of the current year.

If the new owner timely files an agricultural land classification application affirming the property will continue in the same agricultural use, the department will grant provisional agricultural classification for one year to allow the new owner to grow and market agricultural products from the property.

Example:

A taxpayer purchased a property on November 30 of the previous year. The property was classified as agricultural land under the previous owner. The new owner timely files an agricultural land classification application with the department. The new owner affirms the property will continue as an agricultural operation in the same manner of use. The property met the agricultural eligibility requirements on January 1 of the previous year for the previous owner. The new owner has not

owned the property long enough to raise a crop. The department grants a one-year provisional agricultural classification and assesses the property as agricultural land for the current year. The department may ask the new owner to file another agricultural land classification application the following year to demonstrate that the property continues to meet the agricultural land eligibility requirements pursuant to [15-7-202, MCA](#); [ARM 42.20.620](#).

Once land qualifies, it remains classified as agricultural until it no longer meets criteria, changes ownership, or is subdivided.

CLASSIFICATION

Land is classified based on its use. Typically, current use is the guiding principle to determining classification, though it may be based on historic use in some situations. Agricultural lands are Class three. [15-6-133, MCA](#). Class three property includes agricultural land, nonqualified agricultural land (NQ), and nonproductive patented mining claims (NPPMC). The department may follow its land use maps, agricultural land use criteria, information obtained from on-site field reviews, operator and landowner interviews, inspections by department staff, and GIS information to identify land use. [ARM 42.20.602](#).

The department is required to value agricultural land at its productive capacity, not its highest and best use. [15-7-103, MCA](#).

Because the market value of many agricultural properties is influenced by speculative purchases that do not reflect the productive capability of agricultural land, Montana law intends that bona fide agricultural properties be classified and assessed at a value that is exclusive of values attributed to urban influences or speculative purposes.

However, agricultural classification may be based on the operator's long-term management objectives. When crops are grown in a cropping sequence, the long-term management practices dictate the land classification. For example, land may historically be used as summer fallow farm land. As such, the operator may rotate small grain production with alfalfa to restore soil nutrients, soil structure and reduce the chance of certain diseases. Unless the operator's intention is to change his long-term management objectives, the land classification continues to be summer fallow farm land. It is not unusual for operators to practice multiple agricultural uses on the same acreage. The same land may be irrigated, hayed, and grazed in the same season. Specific rules apply depending on the use.

Agricultural land is classified based on the land's agricultural use as set forth in [15-7-103](#) and [15-7-201, MCA](#).

A bona fide agricultural operation means "an enterprise in which the land actually produces agricultural products provided under the term agricultural, as defined in [15-1-101, MCA](#), that directly contribute agricultural income to a functional agricultural business." By this definition, properties involved in an actual agricultural enterprise are considered a bona fide agricultural operation. Criteria for agricultural eligibility determine whether a bona fide agricultural operation can be classified as agricultural land as provided in [15-7-202, MCA](#).

The department must classify agricultural land according to its use, including irrigated, non-irrigated, and grazing land, [15-7-103](#) and [15-7-201, MCA](#). The department currently uses the following agricultural land use subclasses.

1. Non-irrigated summer fallow farm land ([ARM 42.20.676](#))
2. Non-irrigated continuously cropped farm land ([ARM 42.20.676](#))
3. Specialty crop farm land ([ARM 42.20.683](#))
4. Irrigated farm land ([ARM 42.20.675](#))
5. Non-irrigated continuously cropped hay land ([ARM 42.20.676](#))
6. Grazing land ([ARM 42.20.676](#))

Within each class, the land must be sub-classified according to its productive capacity. Productive capacity is determined based on yield, [15-7-201, MCA](#).

Non-irrigated Summer Fallow Farm Land

Crops grown on summer fallow farm land include, but are not limited to, small grains such as wheat, oats, barley, safflower, and sunflower. Summer fallow is the farming practice of leaving land idle with no vegetative growth. Typically, summer fallow farm land is cropped every other year. This management practice is generally done to promote the accumulation of soil moisture and promote weed and disease control.

The practice of double or triple cropping land is called re-crop. Re-crop is the practice of producing a crop for two or three successive years on land that is typically cropped every other year. Re-cropping may be done for a variety of reasons, including economic reasons or to control excess moisture conditions that may be leading to high saline levels in the soil. The summer fallow farm land classification includes re-cropping the land.

Another common practice is crop rotation: grow grain crops one year, and a legume crop, or pulse crop, such as peas or lentils the following year. This type of crop rotation may result in a crop being grown every year, but for department purposes this practice is still considered re-cropping, and the land continues to be classified as summer fallow farm land.

Operators may also rotate hay crops into a cropping sequence. For example, land that is used as summer fallow may be planted to alfalfa hay for several years to restore certain nutrients to the soil. Land that is typically in summer fallow management should remain in summer fallow farm land classification, even when the land is rotated into a hay crop such as alfalfa for a short length of time.

Non-irrigated Continuously Cropped Farm Land

Continuously cropped farm land requires a combination of climate, soils and rainfall found exclusively in these northwestern Montana counties: Flathead, Lake, Lincoln, Mineral, Missoula, Ravalli, and Sanders. This land is planted to a grain crop and is cropped at least 75 percent of the time historically. Continuous cropping must be the accepted long-term practice in the area. Re-cropped farm land, discussed earlier in this manual, should not be confused with continuously cropped farm land.

Specialty Crop Farm Land

Most agricultural crops and forage are produced on an annual basis. However, certain crops are grown for multiple years. These crops are classified as specialty crops. Examples of specialty crops include fruit tree orchards, Christmas trees, and vineyards.

Specialty crops may also refer to unique crops, such as apiaries, biological control insects, gardens, berry bushes, produce farms, floriculture, nurseries, poultry, game bird farms, and sod farms. “Biological control insect” means an insect that is used to reduce or eliminate noxious weeds by interference with the weed’s ecology. [ARM 42.20.601](#). The term “poultry” includes all chickens, turkeys, geese, ducks, and other birds raised in domestication to produce food or feathers. [15-1-101, MCA](#).

All agricultural lands that are producing specialty or unique crops are assigned the highest productivity level of non-irrigated continuously cropped farm land. This is based on a decision by the Committee.

These crops are valued as non-irrigated continuously cropped farm land even if the land is irrigated by a hose, sprinkler, drip line, etc. Any residual land on the parcel that is not used to produce these crops is classified and valued based on its use and productive capacity.

Specifics regarding the classification and valuation of specialty crops can be found in [ARM 42.20.620](#), [42.20.681](#), and [42.20.683](#).

Non-irrigated Continuously Cropped Hay Land

Non-irrigated continuously cropped hay land is land that is hayed more than 51 percent of the years over the long term (e.g., 11 years out of the past 20 years). Hay land includes native vegetation, domestic grasses, and non-irrigated alfalfa. Native or domestic grassland that is hayed occasionally when there is above average precipitation is classified as grazing land, not hay land.

Hay land that is intermittently irrigated is classified as hay land, not tillable irrigated farmland. This situation commonly occurs on land located in arid to semi-arid regions where the owner installs spreader irrigation dikes. Infrequent or light rainfall may mean the land only receives one water application every few years.

Hay fields located along creeks and rivers may experience natural sub-irrigation. Subirrigated hay land that receives water from natural sources is classified as hay land.

Land must receive water from man-made irrigation delivery systems to be classified as tillable irrigated land.

A cropping sequence that temporarily takes land out of hay production and places the land into a different crop remains in the hay land classification. Alfalfa has a productive life of 7 to 10 years. After that, the plant begins to die out and is replaced by other plant species. At the end of alfalfa's productive life, the operator often plants small grains for a few years before replanting a new alfalfa stand.

Irrigated Farmland

Farm land that is tillable and irrigated more than 51 percent over the long term (e.g., 11 years out of the past 20 years) is classified as irrigated farm land. A parcel located within an irrigation district is not automatically classified as irrigated; rather, it is classified according to its use. Irrigated grazing land is classified as grazing land if the land is used solely by foraging livestock. If an irrigated crop is harvested from the land followed by livestock aftermath grazing, the land is classified as irrigated land.

The land must have reasonable amounts of water available for periodic applications over the long-term and the water must be applied to the land. Short-term drought is not a basis for removing land from the irrigated classification unless it is the intent of the operator to discontinue irrigation over the long-term. Land that receives intermittent water applications less than 50 percent of the years over the long term is not classified as irrigated land. For example, infrequent or light rainfall may mean land with spreader dikes only receives one water application periodically.

Grazing Land

Rangeland used for grazing livestock is classified as grazing land. Native or domestic grassland occasionally harvested for hay is classified as grazing land, not hay land. Irrigated pastures are also classified as grazing land.

Land under water bodies, road easements, irrigation ditches, or barns and other farm structures is classified as grazing land at the productive rating of the land under these structures. [15-7-206, MCA](#).

AGRICULTURAL LAND VALUATION

Agricultural values are based on the productive capacity of the land, i.e., the ability of the land to produce income from cash crops and livestock, including but not limited to, spring wheat, alfalfa hay, and private grazing fees.

Statute mandates the valuation process for Class three properties. It describes how the valuation will be computed, the valuation formula to be used, the types and sources of the data used in the formula, and the appointing of the Committee. The Committee reviews the valuation of agricultural properties and provides policy recommendations to the department. The Committee is appointed by the governor every four years. [15-7-201, MCA](#).

The statutory formula for determining productive capacity value is:

$$\text{Value of Each Type of Agricultural Land} = \frac{\text{Net Income of Each Type of Agricultural Land}}{\text{Capitalization Rate}}$$

Or $V = \frac{I}{R}$ where:

V = per-acre productive capacity value of each type of agricultural land

I = per-acre net income of each subclass of agricultural land

R = capitalization rate

The department provides examples of each land valuation calculation in Appendix B.

Commodity Price Information

Commodity price data and cost of production data for the base period (described below) must be obtained from the Montana Agricultural Statistics Reporting Service, the Montana crop and livestock reporting service, and other sources of publicly available information if considered appropriate by the Committee.

An average of agricultural commodity prices over the base period is used to represent gross income for multi-year appraisal cycles. The base period is a ten-year period that is designed to smooth price volatility. A ten-year Olympic average is calculated by using data from ten consecutive years, dropping the highest and lowest years' values, then averaging the remaining eight years.

[15-7-201, MCA.](#)

Base Crops

Although a variety of crops and livestock are produced in Montana, only three commodity prices are used to calculate gross income for assessment purposes. The source for these prices is the Montana Agricultural Statistics Reporting Service.

The base crop for valuation of non-irrigated hay land and irrigated land is alfalfa hay, adjusted to 80% of the sales price. The base crop for valuation of non-irrigated farm land is spring wheat. The base unit for valuation of grazing lands is animal unit months (AUM), defined as the average monthly requirement of pasture forage to support a 1,200-pound cow with a calf or its equivalent.

[15-7-201, MCA.](#)

These base crops are used in the valuation of agricultural lands in the following land use types.

Bushels of Spring Wheat	<ul style="list-style-type: none">• Continuously cropped farmland• Summer fallow farmland• Specialty crop farmland
Tons of Alfalfa Hay	<ul style="list-style-type: none">• Irrigated land• Continuously cropped hay land
Private Lease Fee per Animal Unit Month (AUM)	<ul style="list-style-type: none">• Grazing land

Crop Share

Expenses are estimated for assessment purposes, using a crop share percentage typical to the market. Agricultural properties can be leased with a crop share arrangement. In this type of lease, the landlord receives a set proportion of the crop produced as the rent. Since all expenses are typically paid by the tenant, the landlord's share represents the land's net income.

The crop share rental percentages used in the valuation of agricultural lands are as follows:

Agricultural Land Classification	Landlord's Crop Share
Continuously cropped farmland	0.25 (25%)
Specialty crop farmland	0.25 (25%)
Summer fallow farmland	0.125 (12.5%)
Continuously cropped hay land	0.25 (25%)
Irrigated land	0.25 (25%)
Grazing Land	0.75 (75%)

Gross Income

Gross income is calculated by multiplying the per-unit price for the base crop by the quantity produced on one acre of land.

Example:

- Alfalfa hay commodity price = \$124.20/ton
- Land productivity = 1.2 tons/acre

Gross income calculation:

$$\text{\$124.20 per ton} \times 1.2 \text{ tons per acre} = \text{\$149.04 per acre}$$

Net income per-acre is calculated by deducting agricultural costs from the gross income. This calculation involves multiplying gross income by the landlord's crop share percentage.

Example:

- Gross income = \$149.04/acre
- Crop share = 25%

Net income calculation

$$\text{\$149.04 per acre} \times 0.25 = \text{\$37.26 per acre}$$

Capitalization Rate

The capitalization rate converts an income stream into present value. This process estimates a property value by converting the future financial benefits of ownership into an expression of present worth. Value equals net operating income divided by the capitalization rate. The use of capitalization rates is an accepted appraisal practice to estimate the value of income producing properties.

Statute sets the capitalization rate at 6.4 percent unless a different rate is recommended by the agricultural advisory committee and subsequently adopted by the department, as provided in [15-7-201, MCA](#).

Irrigated Land Valuation

The values for irrigated land are calculated by capitalizing the net agricultural income for irrigated lands. The department calculates net income for irrigated land by multiplying gross income for irrigated land by the crop share and deducting the allowable water cost of \$50 per acre.

[15-7-201, MCA](#). The valuation formula is shown as:

$$V = \frac{(I \times Share) - WC}{R}$$

Where:

V = Value

I = Gross Income

Share = Crop share percentage

WC = Water cost

R = Capitalization rate

[15-7-201, MCA](#), sets the allowable water costs for all irrigated land at \$50 per acre.

Minimum Value of Irrigated Land

The value of irrigated land may not be lower than the value that the land would have if it were not irrigated. [15-7-201, MCA](#).

The department determines the minimum value for irrigated land using the non-irrigated continuously cropped farm land methodology with a productivity of 21 bushels of spring wheat per acre.

[ARM 42.20.675](#). The minimum value for the current appraisal cycle is stated in [ARM 42.20.681](#).

Example: The irrigated minimum value is determined as follows:

- Productivity = 21 bushels per acre
- Commodity Price = \$ 6.11/bushel
- Capitalization Rate = 6.40%

Gross Income = 21 bushels per acre x \$6.11 per bushel = \$128.31 per acre

Net Income = \$128.31 per acre x 0.25 = \$32.08 per acre

Minimum Land Value = \$32.08/0.064 = \$501.25 per acre

NONQUALIFIED AGRICULTURAL (NQ) LAND

NQ land is determined by size. NQ land is defined as parcels 20 acres to less than 160 acres under one ownership, not used for residential, commercial, or industrial purposes and not eligible for valuation, assessment, and taxation as agricultural land. [ARM 42.20.601](#) and [42.20.650](#).

NQ land is placed in property tax Class three with agricultural land and NPPMC. NQ land is valued as grazing land at the statewide average productivity with a taxable percentage seven times the taxable percentage of agricultural land. [15-6-133, MCA](#), [ARM 42.20.650](#) and [42.20.681](#).

NONPRODUCTIVE PATENTED MINING CLAIMS (NPPMC)

NPPMC are included in Class 3 property with agricultural and NQ properties. NPPMC are classified and valued at the statewide average productivity value of grazing land. [15-6-133, MCA](#), and [ARM 42.20.307](#). For NPPMC classification the parcel must meet certain requirements.

A patented mining claim is a property where the federal government transferred the title, including mineral patent, to a private party for the sole purpose of developing a mining operation. The mineral patent gives the owner title to the surface of the property, minerals, and other resources. [ARM 42.20.302](#) and [42.20.303](#).

“Nonproductive land” means non-fertile land that is incapable of supporting animals or producing plant matter in commercially salable quantities. [ARM 42.20.302](#).

Although some minerals may have been removed in previous mining operations, the mineral deposits must not be depleted, however, the mine cannot currently be in operation. When mining resumes, the property is no longer eligible for this classification. [15-6-134, MCA](#); [ARM 42.20.303](#) and [42.20.304](#).

The property must be located outside the limits of an incorporated town. In the case of a county-municipal consolidation, the property must have been outside the limits of the municipality prior to the consolidation date.

Patented mining claims used for residential, recreational, commercial, industrial, agricultural, forest land use, or contain structures to support these activities, are not eligible for treatment as a NPPMC [15-6-133, MCA](#).

Per [15-6-133, MCA](#), and [ARM 42.20.302](#), the department provides the following examples of these uses:

1. filing a certificate of survey that creates a division of the mining claim
2. any covenant or ordinance that prohibits mining use
3. leasing any portion of the surface area for a recreational, commercial, residential, industrial, or agricultural use
4. resumption of mining activities
5. evidence that minerals within the boundaries have been depleted

Improvements that would be used in the mining operation are allowed.

Improvements on NPPMC such as vacant outbuildings or garages that were used for storing mining machinery, equipment, or other mining materials when the claim was active are allowed on a NPPMC. The land under allowable improvements, including the land necessary for the use of these improvements, is classified, and valued as class four property. [ARM 42.20.305](#). The remainder of the patented mining claim is classified and valued as a NPPMC. [15-6-133, MCA](#), and [ARM 42.20.307](#).

HOMESITES

When a residence exists on an agricultural, NQ, or forest parcel, the department identifies one acre under the residence as a homesite for classification and valuation purposes. [15-6-133](#) and [15-6-134, MCA](#), and [ARM 42.20.655; 42.20.725](#).

If the residence is on agricultural land, the homesite is classified as agricultural and valued according to the highest productivity value of agricultural land. If the residence is on NQ or forest land, it is classified as class four land and valued according to the market value.

Homesite Type	Valuation Method
Agricultural Homesite	Highest Statewide Ag Value
Nonqualified Homesite	Market Value
Forest Homesite	Market Value

The remaining land, after the homesite is designated, is classified with the correct land use and productivity.

A residence, also known as a dwelling, is a structure designed or occupied as the living quarters of one or more households; usually equipped with cooking, bathing, toilet, and heating facilities, where necessary.³

A “dwelling” does not require a conventional kitchen or bathroom, utilities, septic or plumbing. Under this definition, many structure types may qualify as a dwelling.

³ Appraisal Institute Dictionary of Appraisal Terms, Seventh Edition

For purposes of identifying homesites, the term residence includes any structure that contains living area such as a single-family residence, outbuildings with living area, mobile homes, manufactures homes and dry cabins. Occupancy of the residence is irrelevant.

Any building used entirely for storage is not considered a residence.

A one-acre homesite may contain multiple residences, provided the residences are located within the same one-acre area. When a property has multiple residences that are not located within a single one-acre area, a one-acre homesite must be designated for each one acre of land that contains a residence. [ARM 42.20.655](#).

If an agricultural parcel is less than one acre in size and contains a residence, the entire parcel is classified as an agricultural homesite. No additional area shall be classified as a homesite on adjoining parcels for this residence. A homesite does not cross parcel boundaries. When a farmstead crosses a parcel boundary with residences on both parcels, a separate one-acre homesite must be designated for each parcel.

A homesite is not assigned to land that contains only a well and septic system without a residence. For example, a homesite is assigned to land that contains a well, septic system and a manufactured home. If the manufactured home is removed from the land, leaving it without a residence, the one-acre homesite is removed from the land's assessment. Land with a manufactured home that is not used as a residence, is not assigned a one-acre homesite.

When a parcel contains both forest and qualifying agricultural land, the homesite location is important. If the homesite is located within the forest portion of the parcel, the correct classification is a forest homesite. If the homesite is located outside of the forest portion, the correct classification is an agricultural homesite.

Improvements such as barns, sheds, silos, cribs, and like structures are considered agricultural improvements not residential improvements. Land under agricultural improvements is classified as grazing land and valued according to the agricultural productivity of the land. [15-7-202](#) and [15-7-206, MCA](#). If these improvements are located on the one-acre homesite, no additional land classification is needed. Residential tract land does not receive a one-acre homesite designation.

Land under commercial or industrial improvements, on agricultural or forest land must be classified as class four, commercial or industrial, and appraised at market value. [15-6-134, MCA](#). An example of a commercial improvement on a parcel containing agricultural land is a riding arena that is used to produce nonagricultural income. An example of an industrial improvement on a parcel containing forest land is a wood products plant.

Examples:

1. An agricultural property has a residence. The parcel is assigned a one-acre homesite.
2. An agricultural property has a primary residence with an adjacent guesthouse all located on the same one acre. The parcel is assigned a one-acre homesite, even though the parcel contains two residences.
3. A farm has several residences that are not located on the same acre. A one-acre homesite must be assigned to land under each residence not located within the same one-acre boundary.
4. A landowner owns contiguous agricultural parcels under one ownership. The parcel with the residence is less than one acre in size. The entire parcel with the residence must be classified as an agricultural homesite.

5. A landowner owns two contiguous parcels under one ownership. There are two houses located within one acre, but they are on each of the contiguous parcels. A one-acre homesite must be assigned on each parcel.
6. A home with or without a septic system or well, is appraised as a residence and the land under the structure is classified as a homesite.
7. An outbuilding with living area, or a dry cabin, with or without a septic system or well, is appraised as an outbuilding. However, the parcel is assigned a one-acre homesite.
8. A NQ property with one residence, with or without a septic system or well, is assigned a one-acre homesite.

Reference the following tables for homesite classification:

When a homesite is located on agricultural land, the following scenarios apply:

Classification of One Acre Homesites					
Situation	Ag Homesite	NQ Homesite	Forest Homesite	Tract land	Remainder acres
Ag parcel less than one acre in size with a residence*	Farmsite on agricultural land - entire parcel size				n/a
Ag parcel with a residence*	Farmsite on agricultural land - 1 acre				Enter remaining acres in appropriate land use item pages
Ag parcel with multiple residences* on one acre	Farmsite on agricultural land - 1 acre				Enter remaining acres in appropriate land use item pages
Ag parcel with multiple residences* on separate sites	Farmsite on agricultural land - 1 acre - for each site				Enter remaining acres in appropriate land use item pages
Ag parcel with multiple residences* in one location but don't fit on 1 acre	Farmsite on agricultural land - for each residence as needed to fit on one acre sites				Enter remaining acres in appropriate land use item pages
Residential parcel with a residence*			Follow residential guidelines		

*residence applies to any building with habitable area

When a homesite is located on nonqualified agricultural land, the following scenarios apply:

Classification of One Acre Homesites					
Situation	Ag Homesite	NQ Homesite	Forest Homesite	Tract land	Remainder acres
NQ parcel less than one acre in size with a residence*		1 Ac. Beneath Improvements (for dwlg on NQ Ag Land) - entire parcel size			n/a
NQ parcel with a residence*		1 Ac. Beneath Improvements (for dwlg on NQ Ag Land)			Enter remaining acres in NQ land item page
NQ parcel with multiple residences* on one acre		1 Ac. Beneath Improvements (for dwlg on NQ Ag Land)			Enter remaining acres in appropriate land use item pages
NQ parcel with multiple residences* on separate sites		1 Ac. Beneath Improvements (for dwlg on NQ Ag Land) - for each site			Enter remaining acres in appropriate land use item pages
NQ parcel with multiple residences* in one location but don't fit on 1 acre		1 Ac. Beneath Improvements (for dwlg on NQ Ag Land) - for each residence* as needed to fit on one acre sites			Enter remaining acres in appropriate land use item pages
Residential parcel with a residence*			Follow residential guidelines		

*residence applies to any building with habitable area

Multiple land use classifications may exist on a single parcel of land, such as agricultural land and forest land, nonqualified agricultural land and forest land, agricultural land and Class four land, or forest land and Class four land. A single parcel can never contain both agricultural and NQ land classifications.

When a parcel contains multiple land uses, the type of land use that surrounds the residence dictates the appropriate homesite classification. Aerial photographs, property record cards, property photographs, and physical inspections are used to identify the type of land use that surrounds the residence. The location of the homesite is identified and the one-acre homesite deducted from the appropriate land use classification.

CADASTRAL INFORMATION

A cadastre is a comprehensive register of the metes and bounds of a country's real property. It commonly includes details of the ownership, such as the precise location (which may include GPS coordinates, dimensions and area), cultivation (if rural), and the value of individual parcels of land. Cadastral maps show the boundaries and ownership of land parcels and may include other property information such as survey districts, unique identifying numbers for parcels, certificate of survey numbers, structure locations, section and/or lot numbers and their respective areas, street and road names, boundary dimensions and references to prior maps.

Montana Cadastral Map

The department provides ownership information and parcel boundary lines to the Montana Department of Administration, Information Technology Services Division, and GIS Services. In turn, GIS Services incorporates this information into their cadastral database which is used in an on-line Montana cadastral map and operated by the Montana State Library.

GEOGRAPHIC INFORMATION SYSTEM (GIS)

The 2005 Montana Legislature provided funding for the department's Property Assessment Division to develop a geographic information system (GIS) which was used for the 2009 reappraisal. The computer software links geographic information (location of item) with the item's descriptive information. GIS integrates hardware, software, and data for capturing, managing, analyzing, and displaying all forms of geographically-referenced information in a map.

Unlike a paper map, where only the location is displayed, GIS maps can present many layers of different information and other data on the earth's surface. GIS provides state and local governments with a flexible set of tools to perform the diverse functions of government using easily shareable data.

The department also uses GIS technology to maintain the agricultural and forest land data and provides updated maps to counties on an on-going basis. These maps are another useful tool for reviewing and discovering land use changes and for updated boundary and ownership change information.

IMPORTANT DATES

Appraisal Date

All property within class three, four, and ten must be revalued by the department every two years. The department classifies property according to its use as of January 1, of the year which precedes the first year of the appraisal cycle to determine the correct land classification. [15-7-111, MCA](#).

Classification and Appraisal Notice

The department must mail a classification and appraisal notice to each property owner in the first year of the two-year appraisal cycle and when any of the following changes occur:

1. a change in ownership
2. a change in classification
3. a change in assessed value, unless due to an appeal decision

Generally, this is the person or entity that owned the property on January 1st. If ownership changed, and the department has processed the change before the notices are printed, the notice will be sent to the current owners. [15-7-102, MCA](#).

Application for Agricultural Land Classification

Property owners may request agricultural classification of their land by applying to the department by March 1 or 30 days after receiving an assessment, whichever is later. [15-7-102, MCA](#), and [ARM 42.20.620](#).

APPENDICES

Appendix A

Agricultural Property Valuation Laws

Below are the statutes that the department follows in appraising agricultural properties:

15-1-101, MCA	Definitions
15-1-201, MCA	Administration of revenue laws
15-1-222, MCA	Taxpayer bill of rights
15-6-133, MCA	Class three property -- description -- taxable percentage
15-6-134, MCA	Class four property -- description -- taxable percentage
15-6-201, MCA	Governmental, charitable, and educational categories -- exempt property
15-6-207, MCA	Agricultural producer exemptions -- products -- unused beet equipment -- low value buildings, implements, and machinery
15-7-101, MCA	Classification and appraisal -- duties of department of revenue
15-7-102, MCA	Notice of classification, market value, and taxable value to owners -- appeals
15-7-103, MCA	Classification and appraisal -- general and uniform methods
15-7-107, MCA	Certification required
15-7-108, MCA	Land split
15-7-111, MCA	Periodic reappraisal of certain taxable property
15-7-112, MCA	Equalization of valuations
15-7-201, MCA	Legislative intent -- value of agricultural property
15-7-202, MCA	Eligibility of land for valuation as agricultural
15-7-203, MCA	Agricultural uses only considered in valuation
15-7-206, MCA	Improvements on agricultural land
15-7-207, MCA	Continuance of valuation as agricultural land
15-7-208, MCA	Reclassification by department
15-7-210, MCA	Tax on change of use of part of tract
15-7-212, MCA	Tract crossing county line -- whole
15-8-111, MCA	Assessment -- market value standard -- exceptions
15-8-201, MCA	General assessment day
15-8-307, MCA	Land assessment
76-6-208, MCA	Taxation of property subject to conservation easement

Agricultural Property Valuation Administrative Rules

The department follows these rules in appraising agricultural properties:

- [ARM 42.20.156](#) Land Classification Change Criteria
- [ARM 42.20.301](#) Application for Classification as Nonproductive, Patented Mining Claim
- [ARM 42.20.302](#) Definitions (*mining claims*)
- [ARM 42.20.303](#) Criteria for Valuation as Mining Claim
- [ARM 42.20.304](#) Additional Restrictions That Curtail Preferential Treatment
- [ARM 42.20.305](#) Valuation of Acreage Beneath Improvements on Eligible Mining Claims
- [ARM 42.20.307](#) Valuation of Eligible Mining Claim Land
- [ARM 42.20.601](#) Definitions
- [ARM 42.20.602](#) Steps in Determining the Classification of Agricultural Land
- [ARM 42.20.603](#) Valuation of Agricultural Land That Does Not Have A Published Soil Survey
- [ARM 42.20.604](#) Steps in Determining the Productivity of Agricultural Land
- [ARM 42.20.610](#) Classification of Easements on Agricultural Land
- [ARM 42.20.620](#) Application and Classification Requirements for Agricultural Land Totaling Less Than 160 Acres
- [ARM 42.20.640](#) Classification of Land 160 Acres or Larger in Size
- [ARM 42.20.645](#) Classification and Assessment of Those Portions of Any Agricultural, Nonqualified Agricultural, or Forest Land Parcels That Are Residential, Commercial, or Industrial Sites
- [ARM 42.20.650](#) Valuation of Nonqualified agricultural land from 20 to 160 acres
- [ARM 42.20.655](#) Classification and Valuation of One-Acre of Land Beneath Residences Located on Agricultural Land and Nonqualified Agricultural Land
- [ARM 42.20.675](#) Irrigated Agricultural Farm Land Valuation
- [ARM 42.20.676](#) Non-Irrigated Agricultural Land Valuation
- [ARM 42.20.681](#) Agricultural Commodity Prices and Values
- [ARM 42.20.682](#) Family Farm Requirements for Agricultural Land Classification
- [ARM 42.20.683](#) Specialty and Unique Crops; Additional Requirements for Agricultural Land Classification

Appendix B

2025-2026

Examples of the Agricultural Land Productivity Valuation Formula

Per 15-7-201, MCA, the formula used to determine the per-acre value of agricultural land is $V=I/R$ where:

- V = productivity per-acre value of agricultural land
I = per-acre net income associated with agricultural use⁴
R = capitalization rate. The rate converts an on-going income stream into value; the rate is 6.4%

Summer Fallow Farm Land

Avg. price for spring wheat	= \$6.11/bu
Productivity	= 23 bu/Ac
Gross Income/ac. = \$6.11* 23 bu/Ac	= \$140.53/Ac
Net Income = \$140.53 * 0.125	= \$17.57
\$17.57/.064	= \$274.47 Productivity Value/acre

Non-Irrigated Hay Land

Avg. price for alfalfa	= \$124.20/ton
Productivity	= .71 tons/Ac
Gross Income/ac. = \$124.20/ton * .71 tons/Ac	= \$88.18/Ac
Net Income = \$88.18* .25	= \$22.05/Ac
\$22.05/.064	= \$344.46 Productivity Value/acre

⁴ A crop share approach is used to determine the net income attributable to agricultural production. In a crop share approach, a percentage of the income from production (the share) is attributed to the landlord (owner) of the land. The remaining percentage is considered the tenant's share and includes expenses of production.

Grazing Land

Avg. private grazing lease = \$24.69/aum
Gross Income/aum = \$24.69* .21 = \$5.18
Net Income/ac. = \$5.18/aum * .21 aum/Ac = \$3.89/Ac
\$3.89/.064 = \$60.76 Productivity Value/acre

Irrigated Land

Avg. price for alfalfa = \$124.20/ton
Productivity = 2.5 tons/Ac
Water cost = \$50.00/Ac
Gross Income/ac. = \$124.20 * 3 tons/Ac = \$310.50/Ac
Net Income/ac = \$310.50 * .25 = \$77.63/Ac
\$77.63 – Water Cost (\$50.00) = \$27.63/Ac
\$27.63/.064 = \$431.61 Productivity Value/acre (calculated)
= \$501.21⁵ Productivity Value/acre (minimum value)

CC Farm Land

Avg. price for spring wheat = \$6.11/bu
Productivity = 21 bu/Ac
Income/ac. = \$6.11 * 21 bu/Ac = \$128.31/Ac
Net Income = \$128.31 * .25 = \$32.08/Ac
\$32.08/.064 = \$501.21 Productivity Value/acre

⁵ Based on Legislative recommendations contained in 15-7-201(7) (f) MCA, the minimum value of irrigated land is established at \$501.21 per acre. When the valuation formula calculates a value that is less than \$501.21, the minimum value is used. In the example the value of the irrigated land would be \$501.21 and not the calculated value. The minimum value is determined based on the statewide average spring wheat production (21 bu/Ac) and the CC Farmland crop share formula.

Appendix C - HISTORY

Taxation of property in Montana began before statehood. In 1919, a separate tax class was developed to classify various lands including irrigated, non-irrigated tillable, grazing, timber, cutover, and mineral lands.

The State Constitution

In 1972, Montana adopted a new Constitution that abolished the Board of Equalization and turned the responsibility of assessing property over to the department.

In 1973, the Montana Legislature passed several statutes pertaining to the valuation of agricultural land. That same year, the department adopted administrative rules and guidelines relating to the valuation of agricultural land including assignment of productivity grades.

In September 1990, the Governor appointed the first Agricultural Advisory Committee (Committee). The Committee reviewed its legislative mandate, evaluated agricultural income and expense data, and recommended new valuation schedules for assessing agricultural land. Appointments to this committee are for a four-year term.

2009 Reappraisal

For the 2009 appraisal cycle, the department conducted a comprehensive classification project to value agricultural lands. This statewide reappraisal project was endorsed by the Committees in 2006 and 2008 as well as the legislature in 2005 and 2007.

Geographic Information System (GIS) technology linked aerial imagery with cadastral (ownership) data. This information was combined with agricultural uses obtained from the USDA Farm Services Agency. Then it was linked with soils productivity estimates for each agricultural land use based upon statewide soil survey information from the USDA Natural Resources Conservation Service (NRCS) to create productivity maps.

The department mailed out individual parcel maps for verification by the agricultural landowners statewide. Landowners were given the opportunity to update those maps. The maps showed current agricultural land uses as well as the land's productivity information and ownership.

GIS

Reappraisal activities associated with agricultural and forest lands included the use of the most recent aerial photography along with older imagery to discover changes in agriculture classification. The imagery used was from the National Agriculture Imagery Program (NAIP), a nationwide program, administered by the Department of Agriculture Farm Service Agency (FSA) Aerial Photography Field Office in Salt Lake City. The FSA has collected NAIP imagery in Montana every two years since 2005. These NAIP imagery datasets were available for agricultural appraisal activities in the department's agricultural land and forest land maps for each county. The department updates these maps annually after assessments are completed to maintain appraisal data and equalize valuation statewide.

Phase-In

As of 2015, agricultural land is reappraised every two years. [15-7-111, MCA](#). Previous to 2015, valuation cycles were six years in length with large changes in value possibly occurring at the onset of a new cycle. The legislature attempted to mitigate these increases between cycles by phasing in increased property values.

For Class three (agricultural), Class four (residential, commercial, industrial), and Class ten (forest) properties, increases in assessed values were phased-in incrementally over the six years of the reappraisal cycle resulting with the property reaching its full market value in the sixth year. The difference in value from the previous cycle was added to the previous value in 1/6 increments each year of the cycle. Any assessed value that decreased from one reappraisal cycle to the next was fully implemented the first year of the new reappraisal cycle.

Agricultural land with productivity only changes used the previous cycle value to determine the amount of value change. Those properties with land use changes or size changes used a calculated value before reappraisal (VBR) to determine the difference in value. A VBR was the full reappraisal value from the previous appraisal cycle. A calculated VBR was electronically calculated by using the current property data (land use, size, and productivity) in the previous cycle calculations.