One Acre Homestead						
	Qualified Agriculture	Non-Qualified Agriculture	Timber			
Market or Productive Value	\$2,302	\$45,522	\$52,609			
Tax Rate	2.16%	1.35%	1.35%			
Taxable Value	\$50	\$615	\$710			
Statewide Average Mills	586.553	586.553	586.553			
Estimated Tax	\$29.17	\$360.47	\$416.58			

Homesite Value Calculation						
Highest Irrigated Land Productivity	Alfalfa Hay Price	Crop Share	Capitalization Rate	Ag Homesite Value		
6.8365 tons/acre	\$86.20	25%	0.064	\$2,302		

x x /

Productive Value = net Income / capitalization rate



¹ The overall formula is: V =I/R

2017-2018

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

= per-acre net income associated with agricultural use¹

R = capitalization rate. The rate converts an on-going income stream into value; the rate is

6.4%

Summer Fallow Farmland

Avg. price for spring wheat = \$6.67/bu.

Productivity = 23 bu/Ac

Gross Income/ac. = 23 bu/ac. * \$6.67 = \$153.41/Ac

Net Income = \$153.41 * 0.125 = \$19.18

\$19.18/.064 = \$299.68 Productivity Value/Acre

NonIrrigated Hayland

 Avg. price for alfalfa
 = \$86.20/ton

 Productivity
 = .71 tons/Ac

 Gross Income/ac. = \$86.20 * .71 tons
 = \$61.20/Ac

 Net Income = \$61.20 * .25
 = \$15.30/Ac

\$15.30/.064 = \$239.06 Productivity Value/Acre

Grazing Land

Avg. private grazing lease = \$19.53/AUM
Operating Expense = \$19.53 * .25 = \$4.88/AUM
Adjusted Gross Income = \$19.53 - \$4.88 = \$14.65/AUM
Statewide Average Productivity = .21 AUM/Ac
Net Income/ac. = \$14.65/AUM * .21 AUM/Ac = \$3.08/Ac

\$3.08/.064 = \$48.13 Productivity Value/Acre

Irrigated Land

 Avg. price for alfalfa
 = \$86.20/ton

 Productivity
 = 3 tons/Ac

 Gross Income/ac. = 3 tons/ac.* \$86.20
 = \$258.60/Ac

 Net Income = \$258.60 * .25
 = \$64.65/Ac

 \$64.65 - Water Cost 2 (\$22.50)
 = \$42.15/Ac

\$42.15/.064 = \$658.59² Productivity Value/Acre

CC Farmland

 Avg. price for spring wheat
 = \$6.67/bu

 Productivity
 = 35 bu/Ac

 Income/ac. = 35 bu/ac. * \$6.67
 = \$233.45/Ac

 Net Income = \$233.45 * .25
 = \$58.36

\$58.36/.064 = \$911.88 Productivity Value/Acre

¹ 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.

² Based on Legislative recommendations contained in HB658 and 15-7-201(7) (f) MCA, the minimum value of irrigated land is established at \$599.26 per acre. When the valuation formula calculates a value that is less than \$599.26, the minimum value is used. In the example the value of the irrigated land would be \$599.26 and not the calculated value. The minimum value is determined based on the statewide average spring wheat production (23 bu/ac) and the CC Farmland crop share formula.