Shoreland Impervious Surface Calculator

Aitkin County has regulations that limit the amount of impervious surface that can be placed on a property. The regulations vary depending on the zoning classification. In Shoreland zoning, 25% of a parcel may be covered by impervious surface. However, only 15% of that 25% can be used for building coverage (this includes buildings or structures). Please use the tables below to calculate the impervious surface on your parcel(s).

1a)

Area of Parcel	Acres	X	Square feet per acre	=	Total Square Footage of Parcel
Total area of the parcel		x		=	0

OR

Fill out this section to calculate the square footage of your parcel(s). If you know the square footage, go to 1b.

1b)

Total Area of Parcel in Square Feet	20,503.35

2a)

Table 1: Existing Lot Dimensions	Fill out this Section and include only EXISTING surfaces				
Building Coverage Structures (Dwelling, garage, shed, deck)	*Needs to be <= 15% in Shoreland				
	Length (ft)	X	Width (ft)	=	Total Square Footage
Attached Garage	28	x	28	=	784
Residence		x		=	1352
Open Porch	6	x	6	=	36
Vaulted Area	15	x	12	=	180
Deck		x		=	564
		x		=	0
		x		=	0

2b) | Total Building Coverage (Sum structures and enter them to the right) | = | 2916

2c) | Building Coverage Percentage (Existing Building Coverage/Parcel square footage) | = | **14.22%**

Other Impervious Surfaces (Sidewalks, patios, driveways, etc)	*Needs to be <= 25% in Shoreland				
Driveway		x		=	1067
		x		=	0
		x		=	0
		x		=	0
		x		=	0
Septic System (Check septic design for number of designed bedrooms)	(# of Bedrooms) 2	x	190	=	380

2d) | Total Existing Impervious Surface Coverage (include Building Coverage (2b)) | = | 4363

2e) | Existing Impervious % (Total Existing Impervious/Parcel Square Footage * 100) | = | **21.28%**

(2c / 1b)

3a)

Table 2: Proposed Lot Dimensions	Fill out this Section and include only PROPOSED surfaces				
Building Coverage	*Needs to be <= 15% in Shoreland				
Proposed Structures (Dwelling, garage, shed, deck)	Length (ft)	X	Width (ft)	=	Total Square Footage
Garage	30	x	40	=	1200
		x		=	0
		x		=	0
		x		=	0
		x		=	0

3b) Total Building Coverage (Sum proposed structures and enter them to the right) = 1200

3c) Building Coverage Percentage (Proposed Building Coverage/Parcel square footage) = 5.85%

Proposed Other Impervious Surfaces (Sidewalks, patios, driveways, etc)	*Needs to be <= 25% in Shoreland				
		x		=	0
		x		=	0
		x		=	0
		x		=	0
		x		=	0
Septic System (Check septic design for number of designed bedrooms)		x		=	
Total Proposed Building Coverage %				=	**20.07%**

3d) Total Proposed Impervious Surface Coverage (include Building Coverage) = 5563

3e) Proposed TOTAL Impervious % ((Total Proposed Impervious + Total Existing Impervious)/Parcel Square Footage * 100) = **27.13%**

(3c + 2c / 1b * 100)