

**Worksheet 5
House Heat Load Calculation**

Using appendix 5, enter the monthly degree days for your house location.

Monthly Heat Load (in Btus) = Total House Loss (in Btus/°F • day) × degree days + lower sidehill concrete wall loss or LCWL (from Worksheet 3, line 7) _____, Btus per hour × 24 hours × days per month

If this is a sidehill design, first calculate the monthly heat loss through the lower concrete wall (MCWL) as follows:

MONTH	LCWL (in Btus)		HOURS PER DAY		DAYS PER MONTH	=	MCWL (millions of Btus)
Sep	_____	×	24 hours	×	30 Days	=	_____
Oct	_____	×	24 hours	×	31 Days	=	_____
Nov	_____	×	24 hours	×	30 Days	=	_____
Dec	_____	×	24 hours	×	31 Days	=	_____
Jan	_____	×	24 hours	×	31 Days	=	_____
Feb	_____	×	24 hours	×	28 Days	=	_____
Mar	_____	×	24 hours	×	31 Days	=	_____
Apr	_____	×	24 hours	×	30 Days	=	_____
May	_____	×	24 hours	×	31 Days	=	_____

*

MONTH	TOTAL HOUSE HEAT LOSS (in Btus)		DEGREE DAYS		MCWL	=	MONTHLY HEAT LOAD (millions of Btus)
Sep	_____	×	_____	+	_____	=	_____
Oct	_____	×	_____	+	_____	=	_____
Nov	_____	×	_____	+	_____	=	_____
Dec	_____	×	_____	+	_____	=	_____
Jan	_____	×	_____	+	_____	=	_____
Feb	_____	×	_____	+	_____	=	_____
Mar	_____	×	_____	+	_____	=	_____
Apr	_____	×	_____	+	_____	=	_____
May	_____	×	_____	+	_____	=	_____
					Total	=	_____