SPIRCO

ORDER INSTRUCTIONS 2010

We want you to be happy with your building. We have written these instructions to help you fill out our contract and to explain why we need this information. If in doubt, please call your salesperson. They can answer any questions you might have, or find someone who can.

I.A. How to make sure you get what you want.

- 1. Who are you, where does your building go, and who will own it?
- 2. What building code should we use to design your building?
- 3. What building code is most important?
- 4. What numbers do Spirco engineers want and why?
- 5. Why did MBMA come up with different numbers than the local building code official?
- 6. How can nearby buildings, hills, and trees affect your building and what do the Spirco engineers need to know about them?
- 7. How will the building be used and what is its importance?
- 8. What is the building use category?
- 9. What are exposure factors?
- 10. What's serviceability and why do the Spirco engineers need to know?
- 11. How fast does the wind blow?
- 12. What's the wind exposure and enclosure type?
- 13. Why is ground snow load not your roof snow load?
- 14. What's the snow exposure factor?
- 15. What are collateral loads?
- 16. Heavy loads and how Spirco engineers design your building to hold them up.
- 17. If an earthquake hits, will your building be OK?
- 18. What do the Spirco engineers need to know if you want to use something besides the standard metal roof?
- 19. What kind of walls do you use?
- 20. Why won't Spirco engineers design your slab and footings? If they won't, who will?
- 21. Additional information so we know what you want.

I.B. Additional Information Sheets

- I.C. Figures
- I.D. Spirco example contract
- **I.E.** Explanation of contract
- I.F. Contract Process
- I.G. MBMA Climatological Data

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		ou, where do	pes your building go, and who will own it?
	-		on the contract. If there is a question, we may need to talk with you quickly to
	keep production on sc		on the contract. If there is a question, we may need to tak with you quickly to
	Name:		
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	Address:		
	City, State, and Zip: _ Phone:		
2	Please give us your er	nd-user's name	, address, city, county, state, zip, and type of business.
	Name:		Project Location: City:
	Business name:		County:
	Address:		State:
	City, State, and Zip:		Use:
3	We have some catego	ories for use.	
		NUMBER	R CLASSIFICATION
		1	Agricultural Structures
		1.A	On Farm Commodity Storage
		1.B	All other farm structures (barns, sheds, workshops)
		2	Manufacturing
		2.A	Production
		2.B	Warehousing/Vehicle Storage
		2.C	Equipment Service/Repair (except hangars)
		3	Commercial
		3.A	Retail Stores
		3.B	Warehousing & Storage
		3.C	Hangars
		3.D	Warehousing/Freight Terminals
		3.E	Offices & Banks
		3.F 4	Commercial Garages & Repair Stations Community
		4.A	Recreational/Cultural/Assembly
		4.A 4.B	Educational, including supporting facilities
		4.C 4.D	Hospital & Health Treatment Houses of Worship, excluding schools/recreational
		4.D 4.E	Government Administration & Public Service
		4.F	Transportation
		4.G	Residential/Lodging/Apartments/Residential Garages
		4.H	Correctional Facilities
		5	Government for Export
		6	All other

This may seem confusing. Call your salesperson and get the definitions if you're not certain. We really do use this information. If your building has several uses, like an office area, a shop, and a shipping warehouse, please tell us all of the uses.

2. What building code should we use to design your building?

We use the building code that your town or county uses. We don't have enough people to keep track of all the changes made by each town and know when they adopt new codes. Many cities and counties issue modifications of the national codes. Some counties and cities adopt the revision immediately. Some are one or two revisions behind. We're good, but not good enough to keep track of all this. We need your help.

The national or model codes are:

UBC (Uniform Building Code) BOCA (Building Officials and Code Administrators) SBC (Standard Building Codes) IBC (International Building Code) North Carolina, Kentucky, Florida, Michigan, and Ohio to name a few State Codes include: Local codes include: New York City, Los Angeles County and others

Please call the building inspector for the county or city where this building is going to be built. Ask them for the information below and provide it on the contract:

Building inspector's name phone phone	
National Code (please check) UBC BOCA SBC IBC Year of code revision	
State Code, if applicable Local Code, if applicable	Year
Are there local amendments to the code?yesno. If yes, how do we obtain a copy?	
Who is the local building inspection manager, building official or plans examiner? How do we can	ontact him by
phone?	

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3. What building code is most important?

There are many different building codes as noted above. IBC is becoming the predominant code across the country. Many states are basing their state codes on the IBC. Some states enforce the same code statewide. Some allow local codes. Others allow local modifications of the national codes.

Some rules that affect your building are:

- Fire Code provisions for public, hospital and emergency buildings •
- Life Safety Code provisions for industrial and public buildings
- Zoning, Land Use, Historic District and Special Use District regulations •
- Handicap Access regulations ٠
- Insurance requirements ٠
- Entergy Codes

If the building you contracted for and we ship doesn't meet your local code requirement you could have a big problem getting all your permits. We don't want this to happen to you. We request that you check on the code situation before we design your building.

Here is what you can do to be sure of the codes:

- Check to see which County it lies in.
- Check to see if the lot is inside City limits.
- Call the County (Township) building inspector's office. Ask which code they enforce. Get the name and date of the last national code revision. If there are local amendments, get a copy of them.
- Call the County building official and verify that he says the same thing about the codes.
- After the building official tells you all of this, write down what he said, his name and date. Then ask • who handles permits and inspections for the City if the lot is inside the city limits.
- Do exactly the same things if there is a City building code enforcement office. Ask the City which code is required.
- If the building is for a church or school, hospital or public use, call the State Fire Marshal. Ask him about special fire code and Life Safety Code requirements.
- If the building will house, process, or use flammable, explosive, toxic, or infectious materials, check with the insurance agent of the customer.
- Give the Spirco Salesperson all of the collected information.

• Before you sign the contract, you need to check on permit requirements. Spirco needs this information to design your building. It is possible to place your building on "permit hold" pending approval of zoning, site design, handicap access, and other approvals.

Spirco engineers have copies of the national codes, most of the state codes, and some of the local codes. What we cannot track are all of the local code amendments. When you find out that a local code applies, please check to see if we have a copy. If not, purchase a copy and send it to us. If you don't check with us and we do not have a copy of the required code, your building may be delayed until we can obtain one.

Spirco engineers will determine whether the national code or the local amendments are more stringent. We will design to the most stringent applicable requirements.

Some local authorities have special seismic or structural requirements. Please ask whether the local amendments include these special design provisions. We will need a copy of those requirements as well.

4. What numbers do Spirco engineers want and why?

The codes tell us what minimum loads to use. These include dead, wind, live, seismic, ice and snow, collateral and auxiliary. Here are some basic definitions of these loads:

Dead: For our purposes this is the weight of the metal building only.

- Wind: Wind applies pressure and suction on the building. This is the most important load for many metal
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- *Live*:

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These are the loads produced by occupancy or maintenance of a building or structure. Live loads are from occupants, workers, equipment, or material during maintenance or movable objects. Live loads do not include environmental loads such as snow, wind, or seismic.

Roof Live – Typical roof live is 20 psf and may be reduced if allowed by the design code. The reduction is based on tributary area that the member supports.

Floor Live – This load is based on the floor use. For example, an office area would have less load than a heavy storage area. As standard practice, Spirco does not reduce floor live loads.

- 21 Seismic: These loads are created on the building by an earthquake. It is important to provide us with the weight of any material going on your building. The heavier the material the larger the seismic loads become.
- 13 *Ice and Snow:* When snow builds up (called a snowdrift) an increase in loading results. We need to know about the buildings, trees, and hills nearby that will affect this build up. When other buildings are close by or attached to the new building ice and snow may be real problems. There is a difference between snow and ice buildup on a "warm roof" and a "cold roof". Please tell us if your building will be heated. Many locations have different ground snow loads in the hills than in the valleys, so please consult the local authorities for loads.
- 17 Collateral: These loads are sometimes called dead loads, but we define dead load as the metal building only. Collateral loads are the weights of such things as insulation, ceiling, lights, heating and cooling systems, sprinkler pipes, and electrical cable trays. Even if you don't plan to add these now, it would be a shame if your building needed modifications to support these items later. It is best to give us a collateral load to design your building with that will cover current and future uses.
- 18 Auxiliary: These are heavy loads that hang from or lean against your building. Some of these include: hoists, cranes, block and tackle to lift heavy parts, rooftop heating/cooling units, church steeples, grain, cotton seed, signs, and heavy piping for manufacturing.

5. Why did MBMA come up with different numbers than the local building code official?

We belong to the Metal Building Manufacturer's Association (MBMA). They publish a list of minimum loads by county and state, even listing some foreign countries. Copies of the MBMA 2006 edition's loads are contained in Appendix A. These loads are minimum guidelines for IBC. You may need a copy of the MBMA 1996 edition's loads, which are minimum guidelines for BOCA and SBC. If you don't have a copy, we can provide a copy for your reference. Loading for UBC should be taken from the code and verified by your local building official. The state or local codes and local modifications may require heavier loads. MBMA loads are a check to determine the minimum requirements and may not always meet your local code requirements. Therefore, in all cases your local building code official should be consulted.

6. How can nearby buildings, hills, and trees affect your building and what do the Spirco Engineers need to know about them?

- In open terrain with no adjacent structures or hills, the wind loads are at there highest and the snow loads may be reduced. If evergreen trees (conifers) surround the building, it is sheltered and your roof will hold more snow and may have a reduced wind. If the building is attached to or near a taller building, tree line or hill, your roof will hold more snow. If the building is heated, snowmelt will reduce the loads. Unheated buildings get higher snow loads. We use snow exposure factors, importance factors, and heated roof factors to determine the roof snow load. We use exposure factors, topography factors, and importance factors to determine the wind load. Therefore, the surroundings affect the design of your building.
- If a taller building is within 20 feet of your building, we have to calculate snowdrift. Look at Figure 1A, 1A-1, and 1B for examples of snowdrift and unbalanced snow loads. In addition, a building on a hill can require an increased wind load to be applied to the building. Provide us with the information on Figures 5 and 6 when there are existing buildings or structures within 20 feet of your building.

10 If your building is located on the upper half of an isolated hill or escarpment, IBC may require your building to have an increased wind load. The term for this is topography effects. If the location of your building meets all the requirements given below then we must be provided with the information in Figure 7.

Requirements: 1. The hill or escarpment is 60 feet or higher in exposure B or 30 feet or higher if located in exp. C;

- 2. The maximum average slope of the hill exceeds 10 percent; and
- 3. The hill or escarpment is unobstructed upwind by other such topographic features for a distance from the high point of 50 times the height of the hill or one mile, whichever is less.

7. How will the building be used and what is its importance?

Each code has importance factors that must be applied to the different loads. The importance factors are based on the building use or occupancy. A building that has a higher occupancy typically has a higher importance factor. To determine the importance factors required for your building you need to know the following:

•	What building code is required?				
•	What will your building be used for? 4				
•	How many people will be in the building?				
•	How many in the largest room at any time? 3 4				
•	Are flammable, toxic or hazardous materials stored, produced or used in the building?				
•	Is this building crucial to national defense or emergency response? 3 4				
•	Will the building be used by Civil Defense as a disaster shelter? 3 4				
•	Is the building part of a power generating or distributing system? 3 4				
	The following table is a summary of the national codes importance factors. If local codes have special requirements, this information must be provided on our contract.				

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IMPORTANCE FACTORS PER CODE

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Occupancy	Nature of Occupancy		Seismic Factor, I _E	Snow Factor, I _S	Wind Factor, I_W
		SBC	N/A	1.0	1.0
Standard	Buildings and other structures except those listed in the below categories		1.0	1.0	1.0
Building			N/A	1.0	1.0 [*] /1.10 ^{**}
		UBC	1.0	1.0	1.0
	Buildings and other structures that represent a substantial hazard to human life in the event of a failure including, but not limited to:	SBC	N/A	1.10	1.15
	Buildings and other structures where more than 300 people congregate in one area Buildings and other structures with elementary school, secondary school or day-care facilities with capacity greater than 250				
	Buildings and other structures with a capacity greater than 500 for colleges or adult education facilities	IBC	1.25	1.10	1.15
High Occupancy Buildings	Health care facilities with a capacity of 50 or more resident patients but not having surgery or emergency treatment facilities Jails and detention centers Any other occupancy with an occupant load greater than 5,000	BOCA ¹	N/A	1.10	1.15 [*] /1.23 ^{**}
	Power-generating stations, water treatment for potable water, waste water treatment facilities and other public utility facilities not included in the '-Essential Facilities category Buildings and other structures not included in the Essential Facilities category containing sufficient quantities on toxic or explosive substances to be dangerous to the public if released	UBC	1.0	1.15	1.0
	Buildings and other structures designated as essential facilities including, but not limited to: Hospitals and other health care facilities having surgery or emergency treatment facilities	SBC	N/A	1.20	1.15
Essential Facilities	Fire, rescue and police stations and emergency vehicle garages Designated earthquake, hurricane or other emergency shelters Designated emergency preparedness, communication, and operation centers and other facilities required for emergency response	IBC	1.50	1.20	1.15
	Power-generating station and other public utility facilities required as emergency back up facilities for Essential Facilities structures Structures containing highly toxic materials Aviation control towers, air traffic control centers and emergency aircraft hangars	BOCA ¹	N/A	1.20	1.15 [*] /1.23 ^{**}
	Buildings and other structures having critical national defense functions Water treatment facilities required to maintain water pressure for fire suppression	UBC	1.25	1.15	1.15
	Buildings and other structures that represent a low hazard to human life in the event of a failure including, but not limited to:	SBC	N/A	0.80	0.90
	Agricultural facilities	IBC	1.0	0.80	0.87 ²
	Certain temporary facilities	BOCA ¹	N/A	0.80	0.90 [*] /1.0 ^{**}

1. For regions between the hurricane oceanline and 100 miles inland, the importance factor shall be determined by linear interpolation.

2. In hurricane regions with V>100 mph, the importance factor shall be 0.77.

* 100 miles from oceanline

** At hurricane oceanline

8. What is the building use category?

Sometimes, the building use category is not clear-cut. If the building is an office and warehouse all inside one structure, then the percentage of each use determines the overall use. Please just tell your salesperson which uses are in the building and he will help you figure the proper category.

9. What are exposure factors?

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We use snow and wind exposure factors to determine the design loads on your building. These are different depending on your site conditions and the building code. Exposure factors tell us what your building site is like so we can design it properly. Consult your engineer of record or the local building official to determine what exposures to use.

Figure 2 gives you the national code wind exposure definitions and section 12 gives a short discussion of it. We ask that you give us the wind exposure of your building site so we can properly apply the wind in the design.

Section 14 gives an explanation of snow exposures and the national code snow exposure definitions and factors. We ask that you give us the snow exposure your building is in (partially, fully, or sheltered) and we will determine the snow exposure factor to use.

1026 We also need information about nearby buildings, hills, and trees. We use this information to calculate snow loads and wind loads.

10. What's serviceability and why do the Spirco engineers need to know?

We design buildings for strength, based on the code for the building location. Additionally the design is per the use requirements. We must also design for serviceability. Serviceability concerns are:

- Amount of bending we build into prefabricated members (camber)
 - Expansion and contraction
- Amount of movement under load (deflection, vibration and drift)
- Connection slippage and gradual deformation
- Corrosion

We ask the purchaser to help define many of the above items. We discuss camber, when appropriate. We use our MBMA guidelines for movements under load. We design to meet the code requirements, but ask for customer input.

Review the following tables and let us know if you want something different. We use our standards unless you have a special requirement. Deflections shown are the worst tolerable limit. Glass breakage, masonry cracking, and building noise can all be reduced by limiting the deflections.

The following tables are Spirco Standards as noted on the contract, which have been taken from the AISC Steel Design Guide # 3. For any material or case not listed, the serviceability requirements must be given to us on the contract.

	0	Service	Table 3. ability Consider		s - Roofing			
27	ROOFING TYPE	STRUCTURAL ELEMENT	DEFORMATION	RECO	OMMENDATION		LOADING	
		EXPANSION JOINTS	HORIZONTAL MOVEMENT	10	0' TO 200' Max.	THE	RMAL	
	METAL ROOFS	ROOF	SLOPE	1_{2}^{\prime}	"/FT. Min.	DR/	AINAGE	
	THROUGH FASTENER TYPE	PURLIN	VERTICAL DEFLECTION	L/	150 Max.	SNC	W LOAD	
		PURLIN	VERTICAL DEFLECTION		DSITIVE RAINAGE		+ .5 × SNOW LOAD + 5 PSF (Min)	
		EXPANSION JOINTS	HORIZONTAL MOVEMENT	15	0' TO 200' Max.	THE	RMAL	
	METAL ROOFS STANDING SEAM	ROOF	SLOPE 1/4'		/4" /FT, Min, D		DRAINAGE	
		PURLIN	VERTICAL DEFLECTION	L/150 Max.		SNC	SNOW LOAD	
		PURLIN	VERTICAL DEFLECTION				DL + .5 × SNOW LOAD DL + 5 PSF (Min)	
•		Service	Table 3 ability Consider		s - Cladding			
27	CLADDING SUPPORT TYPE	CLADDING TYPE AND SUPPORT ELEMENT	DEFORMATIO	N	RECOMMENDI MAXIMUM	ED	LOADING	
		METAL PANELS/ BARE FRAME	DRIFT PERPENDIC TO WALL	ULAR	H/60 TOH/10	00	10 YEAR WINI	
	I F	METAL PANELS/ GIRTS	HORIZONTAL DE	EFL.	L / 120		10 YEAR WIN	
	1 T	METAL PANELS/ WIND COLUMNS	HORIZONTAL DE	FL.	L / 120		10 YEAR WIN	
		PRECAST WALLS/ BARE FRAME	DRIFT PERPENDICU TO WALL	JLAR	Н / 100		10 YEAR WIN	
	FOUNDATION	UNREINFORCED MASONRY WALLS / BARE FRAME	DRIFT PERPENDICUL TO WALL		1/16" CRACK WIE * WALL BASE	DTH	10 YEAR WIN	
		REINFORCED MASONRY WALLS / BARE FRAME	DRIFT PERPENDICUL TO WALL	.AR	H/200 †		10 YEAR WIN	
	I T	MASONRY WALLS / GIRT	HORIZONTAL DE	FL.	$L/240 \le 1.5''$		10 YEAR WIN	
		MASONRY WALLS / WIND COLUMNS	HORIZONTAL DE	FL.	$L/240 \le 1.5''$,	10 YEAR WIN	
	I [MASONRY WALLS /	VERTICAL DEFI	L.	$L/600 \le 0.3$ "	,	DL + LL	
	LINTEL MASONRY WALLS /		1		1			

Notes * - 1/8" WITH PROPER DETAILING

□ - H / 100 WITH PROPER DETAILING

Additional Spirco Standard: Metal Studs with brick veneer, stucco, or dryvit horizontal deflection: H/100 to H/200 for the frame drift and L/240 for the wall members for 10 year wind.

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	FINISH TYPE	STRUCTURAL ELEMENT	DEFORMATION	RECOMMENDED MAXIMUM	LOADING
[ROOF MEMBER	VERTICAL DEFLECTION	L / 360 (PLASTERED CEILINGS)	LL OR 50 YR. SNOW
27	CEILING	ROOF MEMBER	VERTICAL DEFLECTION	L/240	LL OR 50 YR. SNOW
		FLOOR BEAM / GIRDER	VERTICAL DEFLECTION	$L/360 \le 1''$	DL
		FRAME	LATERAL DRIFT	H / 500	10 YR. WIND
	PARTITION	ROOF MEMBER	VERTICAL DEFLECTION	3/8″ TO 1″†	.5 × LL OR 50 YR. SNOW
		FLOOR BEAM / GIRDER	VERTICAL DEFLECTION	L / 360 \leq 3 / 8 $''$ TO 1 $''$	$.5 \times LL$
	NOTES	† - DEPENDS ON PARTI	TION DETAILS		

Table 3.4
Serviceability Considerations - Equipment

	EQUIPMENT TYPE	STRUCTURAL ELEMENT	DEFORMATION	RECOMMENDED MAXIMUM	LOADING
ſ		RUNWAY SUPPORTS	TOTAL INWARD MOVEMENT [†]	1 / 2 ″	CRANE VERTICAL STATIC LOAD
		RUNWAY SUPPORTS	TOTAL OUTWARD MOVEMENT [†]	1 ″	SNOW
	TOP RUNNING	RUNWAY BEAM	HORIZONTAL DEFLECTION	L / 400	CRANE LATERAL
	CRANES	RUNWAY BEAM	VERTICAL DEFLECTION	L / 600; CMAA CLASS A, B, C	CRANE VERTICAL STATIC LOAD
		RUNWAY BEAM	VERTICAL DEFLECTION	L / 800; CMAA CLASS D	CRANE VERTICAI STATIC LOAD
27		RUNWAY BEAM	VERTICAL DEFLECTION	L / 1000; CMAA CLASS E, F	CRANE VERTICAI STATIC LOAD
-	TOP RUNNING CAB OPERATED	BARE FRAME	DRIFT AT RUNWAY ELEV.	H / 240 \leq 2 "	CRANE LATERAL OR 10 YEAR WIND
	TOP RUNNING PENDANT OPERATED	BARE FRAME	DRIFT AT RUNWAY ELEV.	Н / 100	CRANE LATERAI OR 10 YEAR WIND
	UNDERHUNG CRANE	RUNWAY FRAME	VERTICAL DEFLECTION	L / 450; CMAA CLASS A, B, C	CRANE VERTICAL
	JIB CRANE	BOOM	VERTICAL DEFLECTION	L / 225	CRANE VERTICAL
	NOTES	† – SUM OF B	OTH RUNWAYS		

11. How fast does the wind blow?

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Some building codes give wind speeds in fastest mile per hour. These are speeds exceeded on average only once in 50 years. They are measured at 33 feet above ground. IBC wind is based on ASCE 7, which gives the wind speeds in 3-second gusts. Wind speeds are shown in each of the national codes on maps. Special wind zones in the Smoky Mountains, along the Great Lakes, and in the Rocky Mountains are identified. Be sure to get the local building official to give you the wind load for those areas. It's a good idea to ask every time, because the city may have different design values from the surrounding county.

The design wind speed is 110 miles/hour to 140 miles/hour at the outer banks of North Carolina and the southern tip of Florida. The Atlantic and Gulf of Mexico are around 100 miles/hour from North Carolina to Corpus Christi, Texas. Most of the Texas gulf coast counties now require special certifications by specifically trained and certified engineers for wind stability. Some special requirements like South Florida, Dade and Broward counties, we cannot meet.

Some special requirements along the coasts often require the building to be designed for either water surge or flying debris or some other criteria for hurricane exposures. For coastal counties, we need to know how far the building site is from the oceanline.

BOCA, UBC and IBC apply wind exposures as discussed in section 12 and shown on Figure 2. BOCA and IBC use internal and external pressure coefficients, with gust response factors and many other calculations. SPIRCO engineers will do the math, if you supply the information requested on the contract.

12. What's the wind exposure and enclosure type?

- 9 There are wind exposure factors in the UBC, IBC and BOCA codes. SBC does not distinguish between different exposures. Figure 2 shows the exposure categories. The BOCA and IBC codes distinguish between tall, urban type obstructions, upwind and hilly terrain with significant tree cover, while the UBC does not.
- BOCA and IBC also distinguish between treeless flat terrain, near large water bodies and flat, relatively unobstructed terrain much more than UBC. IBC, based on ASCE 7, may require ground elevation changes to be taken into account when your building is on a hill.
 - A hollow object with only one side open will be picked up by the wind easier than the same object with all walls solid. This is the principle wind enclosure is based on. The degree of enclosure is very important. Freight terminals, automotive service bays, and similar structures may need to be considered partially enclosed if the doors remain open. When Spirco engineers suspect the enclosure specified on the contract could be wrong, they will refer the building back to sales for questions and a costly change order could result.

The doors and windows that are in your building should be designed to withstand the wind loads per the applicable code. When they are not we need to know. If they are not designed to withstand the wind loads, we have to consider them open. Glass has a special requirement in wind borne debris areas, with wind speeds greater than 110 mph and within one mile of a hurricane coast, or any area with wind speeds greater than 120 mph, in the IBC. Glass in these areas must be impact resistant or protected with an impact-resisting standard. You should consult your engineer of record or door / window manufacturer to help determine these requirements.

ASCE 7 defines an open building as one with all walls at least 80% open. It defines a partially enclosed building as one that meets all the following:

- In one wall the openings exceed in area all of the rest of the building by 10%
- more than 4 square feet are open,
- 1% of the wall area, whichever is greater,
- and the percentage of openings in the roof and other walls does not exceed 20%.

Figure 3 illustrates the differences in definition and use between codes.

13. Why is ground snow load not your roof snow load?

The order and contract forms ask for ground snow load or roof snow load. Most codes give a maximum determined by years of observations from snow gauges in open areas. It may not correct for hilly, forested, or urban areas.

There are differences between roof snow loads and ground snow loads. We use the importance factor, exposure factor, and thermal factor to adjust the ground snow to determine the roof snow. If the building is all by itself, surrounded by flat prairie, wind can keeps the snow off the roof. Therefore, the roof snow is reduced. If there are trees, buildings and hills nearby, the snow doesn't blow of as easily. Therefore, the roof snow is larger than the open case. Fully sheltered roofs with tall tree cover and hills don't get much wind or sun. Therefore, the roof snow can become very large.

14. What's the snow exposure factor?

14 The snow exposure definitions are listed below. The snow exposure factor is multiplied by the ground snow and other roof factors to determine the roof snow load. It is dependent on wind, terrain, and tall obstructions like trees, hills, and buildings.

Snow exposure may change. You might place your building next to a clear-cut pine forest. In 15 years, the forest would be growing back and the exposure factor may rise from 0.8 to 1.2. Spirco engineers can only certify and design to ground snow loads according to the code and exposure that is sent to us when we design the building. You should carefully think over the snow exposure you want to use.

Buildings that are heated typically have warmer roofs. Warm roofs melt snow faster and drop snow easily. If the roof is only heated on certain work days or not at all, the cold roof factor should be used to increase snow loads. It is important for our engineers to know if the building will be heated or not. Table 1.5.2 from the 2002 MBMA shows some examples of typically heated or unheated buildings.

We also check unbalanced snow loads like shown on Figures 1A, 1A-1 and 1B. We do drift calculations for the windward and leeward roof as shown on the bottom of Figure 1B. Where snow can fall from a high roof to a lower roof, we add a sliding snow surcharge.

14

SPIRCO

13

SNOW EXPOSURE DEFINITIONS

Partially Exposed: Roofs not fully exposed or sheltered.

<u>Fully Exposed</u>: Roofs exposed on all sides with no shelter, generally open terrain extending one half mile or more. Roofs with large mechanical equipment or other obstructions are not included in this category.

<u>Sheltered</u>: Roofs located in densely forested areas that qualify as an obstruction (typically conifer trees). An obstruction is defined as being taller than the roof and within a distance of 10 times the height of the obstruction above the roof.

Snow Exposure (C _e)				
	Terrain Category	Partially Exposed	Fully Exposed	Sheltered
	А	1.1	N/A	1.3
IBC SBC	В	1.0	0.9	1.2
BOCA	С	1.0	0.9	1.1
	D	0.9	0.8	1.0
UBC	N/A	0.7	0.6	0.9

SNOW EXPOSURE FACTORS

15

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Typical Heated and Unheated Building Usage			
Heated ($C_t = 1.0$)	Unheated ($C_t = 1.2$)		
Manufacturing Production	Agricultural Buildings		
Manufacturing Equipment Service	On-Farm Structures		
Commercial Retail Stores	Commercial Warehouse/Freight Terminals ¹		
Commercial Offices and Banks	Some recreational facilities such as ice rinks, gyms, field houses, exhibition buildings, fair buildings, etc.		
Commercial Garages and Service	Some warehouse facilities such as raw		
Stations	material storage, mini warehouses		
	parking and vehicle storage, etc. ¹		
Educational Complexes	Refrigerated Storage Facilities		
Hospital and Treatment Facilities			
Churches			
Government Administration & Service			
Transportation Terminals			
Residential			
Some recreational facilities such as			
bowling lanes, theaters, museums,			
clubs studios, etc.			
Some warehouse facilities such as			
retail storage, food storage, parts			
distribution and storage, etc. ¹			

Table 1.5.2 Typical Heated and Unheated Building Usage

 1 C_t = 1.1 if building kept just above freezing.

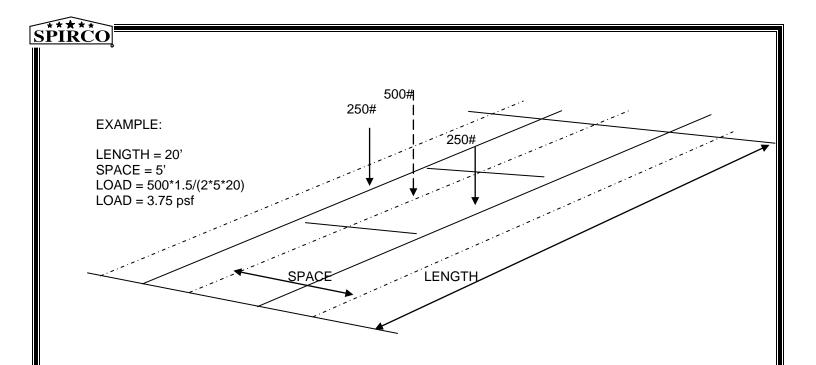
15. What are collateral loads?

Collateral loads are a type of dead load. However, the only dead load we know is the weight of the metal building we are providing. We do not know what your sprinkler system or other items you might have hanging from the roof weigh. We need to know the weight of any lighting, ceiling, sprinkler systems, or other load inducing systems you have in your building.

If a rooftop AC unit adds 500 pounds and may set on any two adjacent purlins, the equivalent uniform collateral load would be approximately:

Load in psf = 500 pounds * 1.5 / (2 purlins * purlins space in feet * purlin length in feet).

The 1.5 factor accounts for lapping of the purlins over a supporting frame. If it is a 1 bay structure, use 2 instead of 1.5.



Typical Material Weights

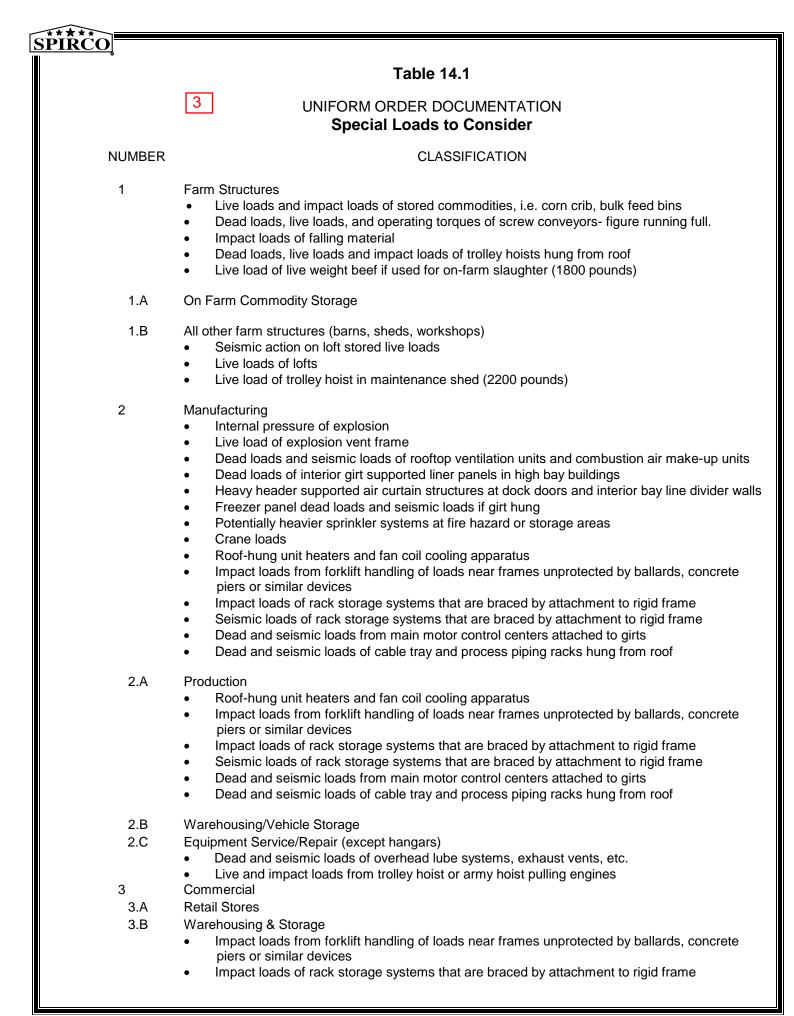
Material	Collateral Load, psf
Vinyl-backed insulation	0.5
Rigid insulation	1.0
Lighting	0.5
HVAC ducts, office/commercial	1.0
Sprinkler system (wet)	3.0
Sprinkler system (dry)	1.5
Acoustical fiber tile ceiling	1.0
Gypsum board ceiling (1/2")	2.0
Gypsum board ceiling (5/8")	3.0
Plywood sheathing (5/8")	2.5
Plywood sheathing (3/4")	3.0

Table 14.1 gives other types of loads our Engineers need to know about. They are not all-inclusive, but they do affect the various types of buildings listed.

16. Heavy loads and how Spirco engineers design your building to hold them up.

The list of special loads in table 14.1 should be considered depending on your building use. We need to know where the loads attach to the building and the weights. We believe the best way to communicate this information is to locate the item on a plan of the building and to send us catalog information about specific equipment. We can't design for what we don't know about. The quality of your project depends on good information.

18



3.C Hangars

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- Hangar door dead, impact and wind loads on jambs and headers
- Live and impact loads from trolley or army hoists pulling engines and wing parts
- 3.D Warehousing/Freight Terminals
 - Dead and seismic loadings of dock seals acting on door frames
 - Dead loads of air curtains, header supported dock doors
 - Impact loads from forklift handling of loads near frames unprotected by Ballard's, concrete piers or similar devices
 - Impact loads of rack storage systems that are braced by attachment to rigid frame
 - Dead loads of interior girt supported liner panels in high bay buildings
- 3.E Offices & Banks
 - Collateral loads of HVAC, including coils, air handlers and units, acoustical ceilings, lighting, insulation, fire sprinklers, security camera installations, etc.
- 3.F Commercial Garages & Repair Stations
 - Roof-hung unit heaters and fan coil cooling apparatus
 - Dead loads, live loads and impact loads of trolley hoists hung from roof
 - Dead and seismic loads of overhead lube systems, exhaust vents, etc.

Community

4

- 4.A Recreational/Cultural/Assembly
 - Live, dead and impact loads (not reduced) for running tracks on cantilevered or attached mezzanine
 - Impact loads of roof and girt supported basketball goals
 - Dead and local seismic loads of scoreboards
 - Stained glass dead and seismic
 - Roof and girt supported cross or false lattice over sanctuary altar
 - Stage curtains
 - Purlin and girt supported sound systems
 - Special smoke vent structure on roof over stage
 - Roof supported vents over cooking areas
 - Proscenium air curtain or deluge shower fire protection system over stage
 - Bleachers attached to rigid frame
 - Organ or choir loft attached to rigid frame or endwall frame
 - Lighting/sound system catwalks hung from roof
 - Higher importance factor in seismic, wind and snow for assembly hall
- 4.B Educational, including supporting facilities
 - Live, dead and impact loads (not reduced) for running tracks on cantilevered or attached mezzanine
 - Impact loads of roof and girt supported basketball goals
 - Dead and local seismic loads of scoreboards
 - Stage curtains
 - Purlin and girt supported sound systems
 - Special smoke vent structure on roof over stage
 - Roof supported vents over cooking areas
 - Proscenium air curtain or deluge shower fire protection system over stage
 - Bleachers attached to rigid frame
- 4.C Hospital & Health Treatment
 - Increased collateral loads in vicinity of corridors for heavy HVAC, gas and fluid piping and heavy duty electrical cable tray systems
- 4.D Houses of Worship, excluding schools/recreational
 - Stained glass dead and seismic
 - Roof and girt supported cross or false lattice over sanctuary altar
 - Stage curtains
 - Purlin and girt supported sound systems

<u>→ ★ ★ ★ ★ ★ →</u>	
<u>SPIRCO</u>	
	 Special smoke vent structure on roof over stage Roof supported vents over cooking areas Proscenium air curtain or deluge shower fire protection system over stage Organ or choir loft attached to rigid frame or endwall frame Lighting/sound system catwalks hung from roof Higher importance factor in seismic, wind and snow for sanctuary
4.E	 Government Administration & Public Service Verify importance factor for wind, seismic and snow High occupant load for civil defense use may increase importance factors
4.F	TransportationVerify importance factor for wind, seismic and snow
4.G	Residential/Lodging/Apartments/Residential Garages
4.H	Correctional
5	Government for Export
6	All other

17. If an earthquake hits, will your building be OK?

Unless the building is tall, has a mezzanine floor, a crane system or heavy roof top equipment, the design typically is not controlled by earthquake loading. The governing codes tell us the factors we need to make sure your building stands. If loads are added, heavy storage racks are added later, or we are not given proper information about internal material weights, we may not be able to design the proper restraints. We need the seismic design factors, importance factors, and soil class / profile to determine the seismic loads on the building. We need to know the weight of any exterior walls, interiors walls, or additional materials to properly load the building. The following tables, can help you determine the soil class / profile.

23

23

SOIL CLASS / PROFILE

IBC		
Site Class	Soil Profile [*]	
А	Hard rock	
В	Rock	
С	Very dense soil & soft rock	
D	Stiff soil profile	
Е	Soft soil profile	
F	Very soft, special requirements	

• Code must be consulted for additional information. Data to determine soil profile type must be attained from site-specific investigation and testing.

<u>NOTE</u>: When soil properties are not known in sufficient detail to determine the site class, Site Class D shall be used unless the building official determines that Site Class E or F is likely to be present at the site.

SBC, BOCA			
Soil Profile	Description*	S	

S ₁	Rock or less than 200' of stiff soil conditions overlying rock	1.0
S ₂	Greater than 200' of stiff soil conditions overlying rock	1.2
S_3	20' to 40' of medium-stiff clay	1.5
S ₄	Soft clay	2.0

• Code must be consulted for additional information. Data to determine soil profile type must be attained from site-specific investigation and testing.

NOTE: When soil properties are not known in sufficient detail to determine the soil profile type or when soil profile does not fit any of the four types, use S_4 , S=2.

UBC		
Soil Profile	Description	
S _A	Hard rock	
S _B	Rock	
S _C	Very dense soil & soft rock	
S _D	Stiff soil profile	
S _E	Soft soil profile	
S _F	Very soft, special requirements	

• Code must be consulted for additional information. Data to determine soil profile type must be attained from site-specific investigation and testing.

<u>NOTE</u>: When soil properties are not known in sufficient detail to determine the soil profile, type S_D shall be used in seismic zones 3 and 4, and type S_E shall be used in seismic zones 1, 2A, and 2B.

28 29 18. What do the Spirco engineers need to know if you want use something besides the standard metal roof?

Standing seam metal roofs and clay tile roofs are attractive or you may want to build your own plywood and shingle roof. Alternatively, you may want to add changes in roofline, dormers, overbuild accents and mansards or overhangs. We have to know all this information to properly design your building.

The information should include:

SPIRCO

- Type, weights, and attachment of all material used
- Precise locations of hips, valleys and dormers
- Type of roof system, including manufacturer's data sheets
- Allowable loads and spans for material used
- Maximum allowable deflection/deformation allowed to prevent damage to the material

19. What kind of walls do you use?

We like to use flush girts on the endwalls of standard metal buildings. We like to use bypass girts on the sidewalls for economy. Drawings of the two types are shown on Figure 4. If you are mixing materials and construction types, you want to think carefully about the choice of flush or bypass girts.

If you use masonry or glass part of the way up a wall, you usually need bypass on that wall to keep a straight wall line. If you want to keep the tapered column from intruding into the interior, you may choose flush. If you mix flush and masonry on a wall, you will need to build out around the exterior of the column. Pages 19, 20 and 21 are additional information sheets for you to fill out in order for us to design the building so your walls will fit.

20. Why won't Spirco engineers design your slab and footings? If they won't, who will?

Our engineers will not visit the building site, in most instances. We don't know your local soils and local building practices. Our Engineers will only be responsible for design of the metal building. The foundation should be designed by a local Registered Professional Engineer, who knows the local soils and construction practices. Call a registered Civil Engineer or Structural Engineer. Do not ask someone who is not experienced in this kind of work to do the design. We will supply a set of permit drawings for the project, so that the Engineer can design a properly dimensioned foundation. These permits will give the foundation designer the information about the building they needs. You will need to give him locations of utilities, like plumbing, and locations for heavy machinery and special items to be embedded or cast into the floors.

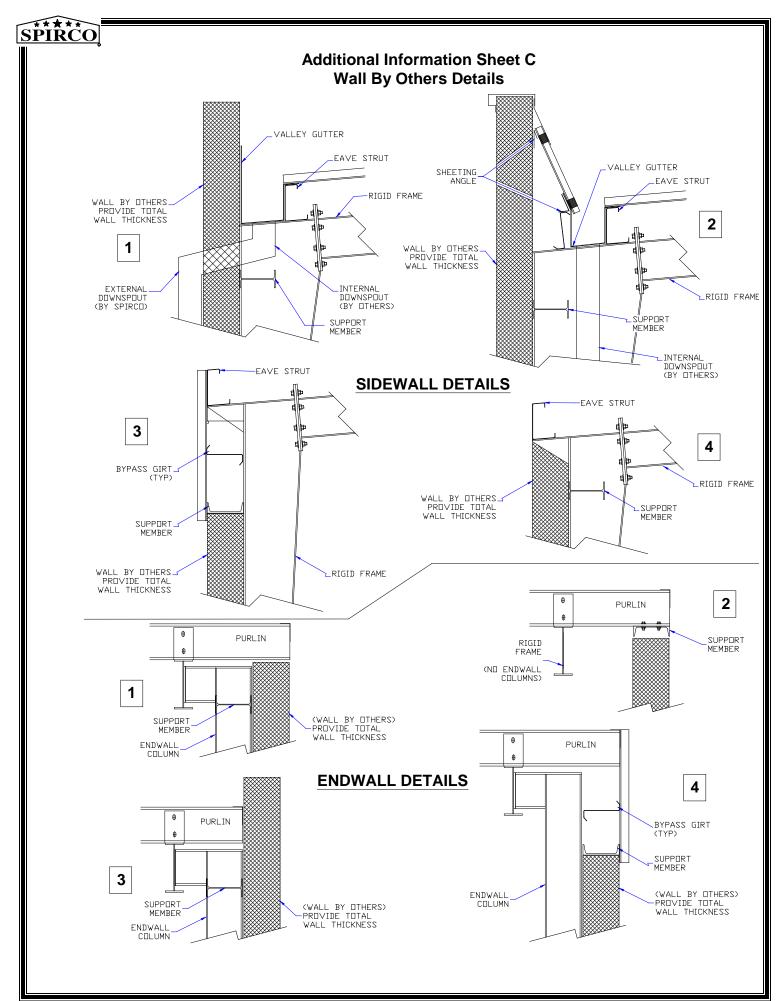
21. Additional information so we know what you want.

Please fill out sheets A through E and figures 5 through 7 as they apply to your building. Always fill out sheet F for your building. Sheets A, B, and C tell us how we need to design your walls. If you are going to have a mezzanine now or in the future sheet D asks for the information, we need to design your building. If you are going to put a crane in your building sheet E provides the information we need to design what you want. Sheet F tells us what colors to use where on your building. Figures 5, 6, and 7 are to tell us about your building site so we can properly apply the snow and wind loads, which will affect your building. If you fill out these pages when you ask for a quote we will be better able to get you a more accurate quote and avoid most questions, not to mention you will have the information we need to design and detail your building.

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SPIRCO	
	Additional Information Sheet A Building with brick and stud walls
1.	Is top of wall system supported by SPIRCO?
	 YES - Lateral support beam will be provided by SPIRCO. NO - Lateral support beam will be provided by others. What type of beam will you supply? What will the beam weigh?Ibs/foot How will you attach the beam to the structure? How high is the top of the beam?
2.	What are the deflection criteria?
	 SPIRCO – Spirco standard (<u>Any material that is not listed in Spirco standard.</u> <u>The deflections limits must be provided.</u>) Customer – specify Support member horizontal deflection L/ <i>example: L/240</i> Frame horizontal drift H/ <i>example: H/100</i>
3.	Are walls in girt line?
	□ YES □ NO
4.	What is the weight of the wall system?
	psf
5.	Please indicate which detail on the "Wall by Others Details" sheet is applicable and what is the total thickness. If none are applicable, please provide a detailed sketch.
	Sidewall – Detail # Wall Thickness"
	Endwall – Detail # Wall Thickness"

SPIRCO	
	Additional Information Sheet B Building with concrete masonry walls and tilt-up walls
6.	Is top of wall system supported by SPIRCO?
	 YES - Lateral support beam will be provided by SPIRCO. NO - Lateral support beam will be provided by others. What type of beam will you supply?
7.	What are the deflection criteria?
	SPIRCO – Spirco standard (<u>Any material that is not listed in Spirco standard.</u> <u>The deflections limits must be provided.</u>)
	 Customer – specify Support member horizontal deflection L/ example: L/240 Frame horizontal drift H/ example: H/100
8.	Can walls be used as shear walls to resist horizontal loads? Yes Spirco will provide all loads imposed by the metal building components to be resisted by the shear wall. No See questions 4 thru 7
9.	Can we place x-bracing in all walls? Yes No
10.	Are walls attached to the steel columns? Yes No What do they attach to? Please provide sketch
11.	Can we flange brace the columns to the walls? Yes No
12.	If no x-bracing or shear walls are allowed and if walls are attached to the steel columns, it shall be noted that portal frames or other alternate bracing system will be much more flexible than the wall. Walls will have to yield (crack) before any load is resisted by the portal frame unless special connections are provided between the wall and the columns.
13.	Are walls in girt line?
	□ YES □ NO
14.	What is the weight of the wall system?
	psf
15.	Please indicate which detail on the "Wall by Others Details" sheet is applicable and what is the total thickness. If none are applicable, please provide a detailed sketch.
	Sidewall – Detail # Wall Thickness"
	Endwall – Detail # Wall Thickness"



<u>_O</u> ľ		Additiona	I Information Sheet D	
		Mezza	anine Information	
1.	What is the floor			
	Provide floor thickr		es and weight psf.	
	Lightweigh			
	Precast co	oncrete		
2.			ed that SPIRCO determines th	e floor framing systen
		ically requested by	the customer.	
	By SpircoBar joists of	on steel beams		
		ed sections on steel bea	ams	
	Steel bean	ns on steel girders		
	Other, spe	cify		
3.	Is live load specia			
	□ Yes -s			
	No - see	#4		
4.	What is the mezza	anine use?	50 pet plue ellewopee	for portitions lb/ft*
	 Office Light Stora 	ane	50 psf, plus allowance 125 psf	ior partitions io/it
	Heavy Sto		250 psf	
	Fixed seat		50 psf	
		assembly (ballroom)	100 psf	
	 Class roon Corridors 	ns	40 psf 80 psf	
	□ Other		00 psi psf	
		f partitions on a sketch		
5.		litional loads or conce		unight type ? consoitu
	□ Heavy equ □ Masonry p		etch location and give operating	Please sketch location
			drywalls or movable partitions	Please sketch location
	File rooms	i		Please sketch location
		uipment that may gene	rate impact loads	Please sketch location
	Collateral	load		
6.	What is the cleara	ance below the Mezza	nine?Feet	
7.	What is the Clear	ance above the Mezza	anine finished floor?	Feet
8.	Is mezzanine fran	ning by Spirco? (bear	ms, joists, decking, perimeter	angle)
	Beams?	□ Yes	By Others – Specify Size	
	Joist?		By Others – Specify Size	
	Decking?		By Others – Specify Size	
	Perimeter Angle?		By Others – Specify Size	
	tch is required for all			

Additional Information Sheet E Building with Crane

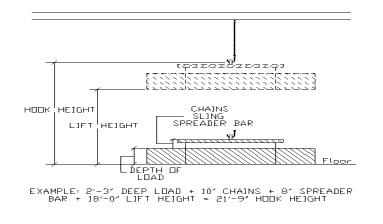
Item	Information	UNIT
Crane type (example monorail, top running bridge)		-
Crane classification (example NCMA class D)		-
Cab or pendant operated		-
Crane capacity		Tons
Maximum wheel load w/o impact		Pounds
Wheel base		Feet
Bridge weight		Pounds
Hoist and trolley weight		Pounds
Runway rail weight (ASCE type)		#/Yd
Clearance from face of column to C.L. of rail		Inches
C.L. to C.L. of rails		Feet
Top of bracket elevation		Feet
Hook height (see below to determine height)		Feet
Number of cranes on the same runway		-
Distance between cranes if more than one		Feet
*Are runway beams and channel provided by Spirco?		_
*Are brackets provided by Spirco?		_
*Are auxiliary crane columns provided by Spirco?		_
*Is crane bracing provided by Spirco?		_
Location of crane system in building (sketch)		

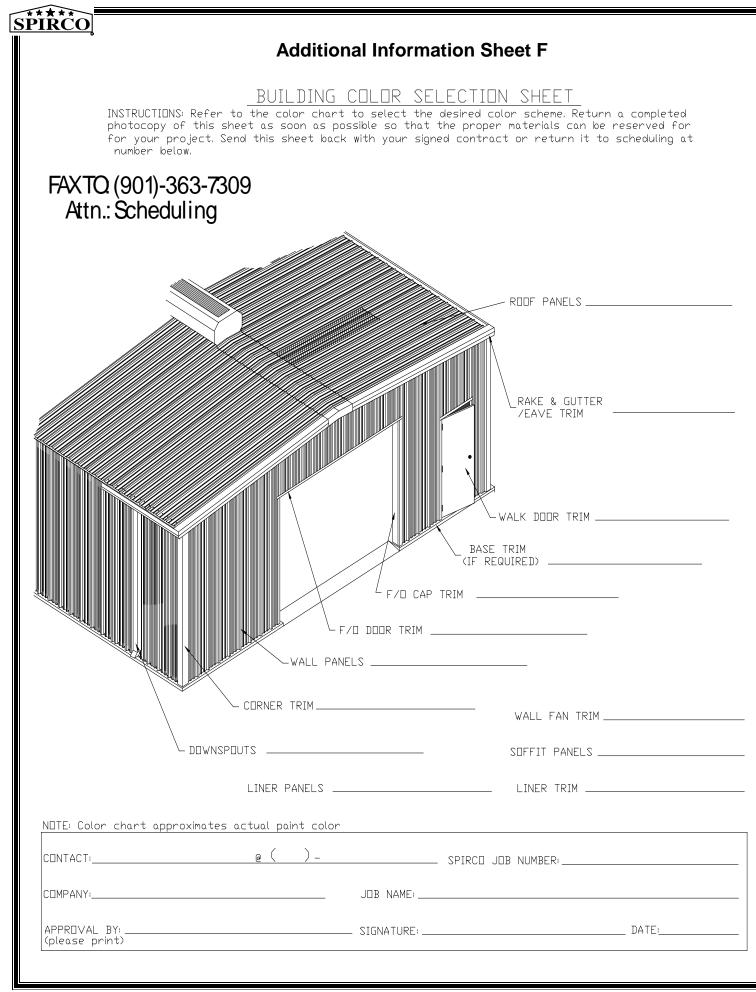
Provide data from crane manufacturer when available.

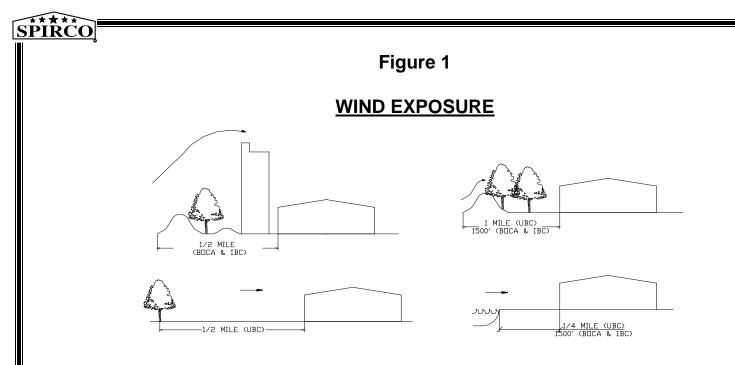
SPIRCO

*If runway beams, cap channel, brackets, auxiliary crane columns, or crane bracing is not provided by Spirco. Sizes and details of attachment are required to properly design the building.

You can figure the hook height by adding the depth of the load plus the chains, sling, and spreader bar plus how high off the floor you are going to pick it up. See Sketch.







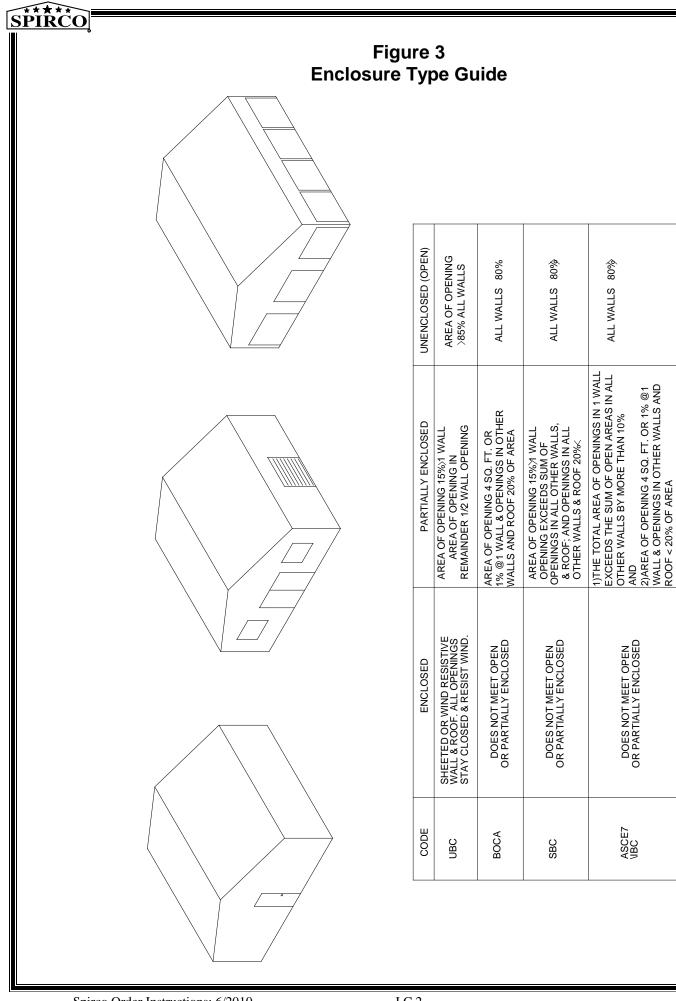
Wind Exposure Definition:

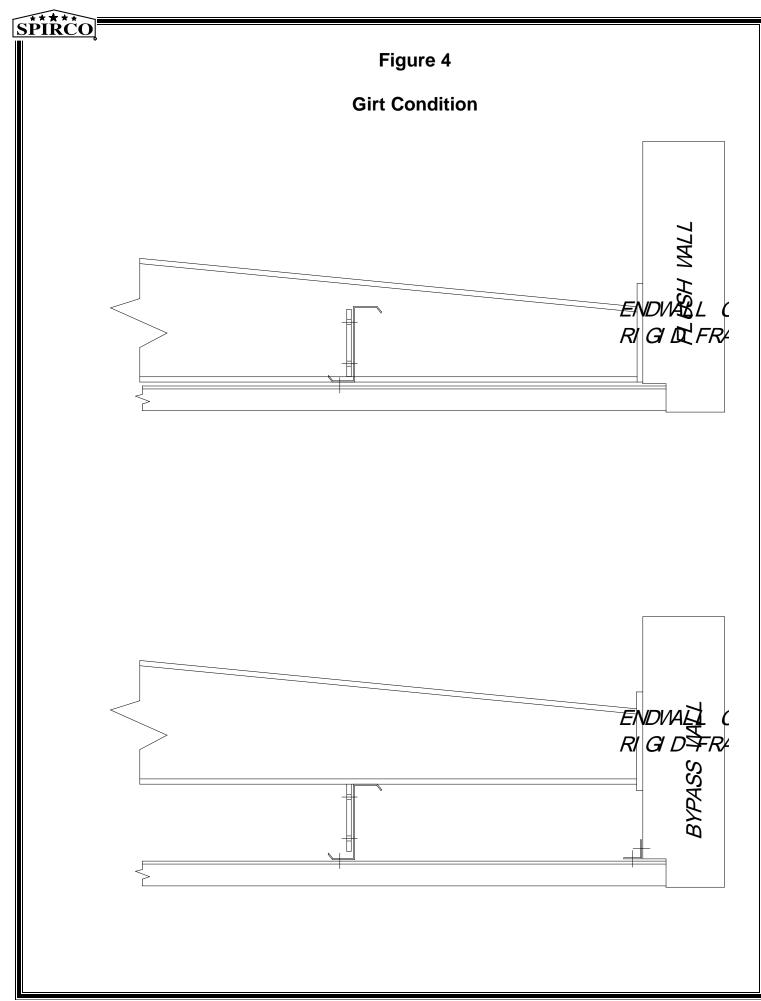
Exposur e Category—The characteristics of ground surface irregularities (natural topography and vegetation as well as constructed features) for the site at which the building is to be constructed. The ASCE 7-05 Commentary provides aerial photographs of typical exposures. The definitions are provided in Section 1609.4 of IBC 2006. The following abbreviated definitions are provided, but the user must refer to the IBC 2006 definitions to determine the appropriate category.

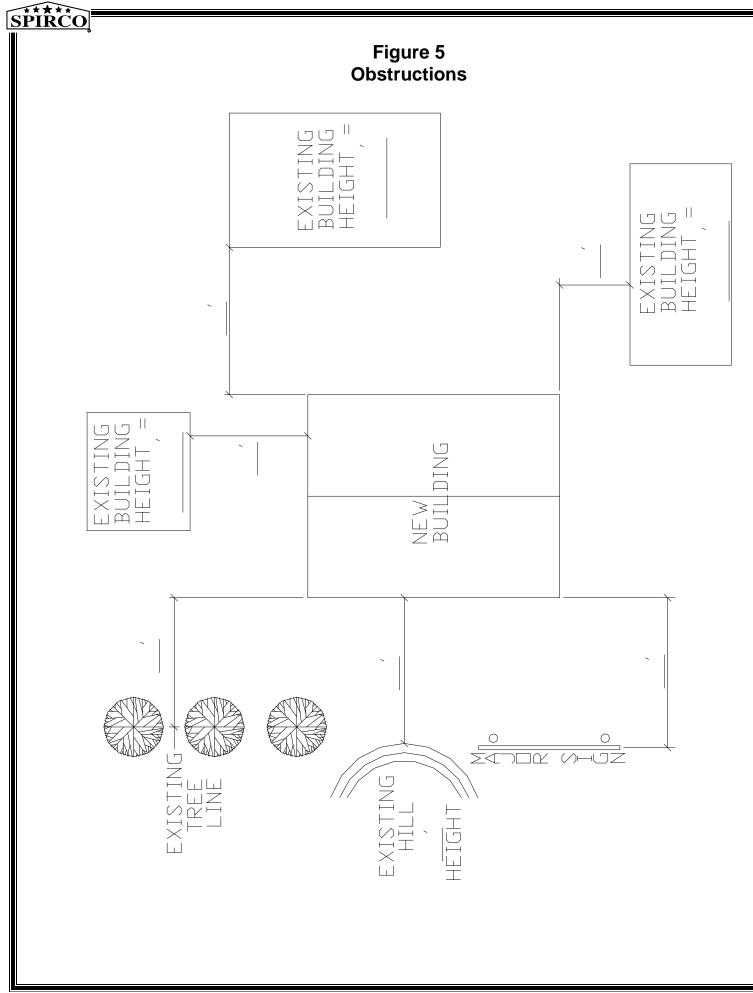
Exposure B—Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

Exposure C—Open terrain with scattered obstructions having heights generally less than 30 feet.

Exposure D—Flat, unobstructed areas and water surfaces outside hurricane-prone regions.







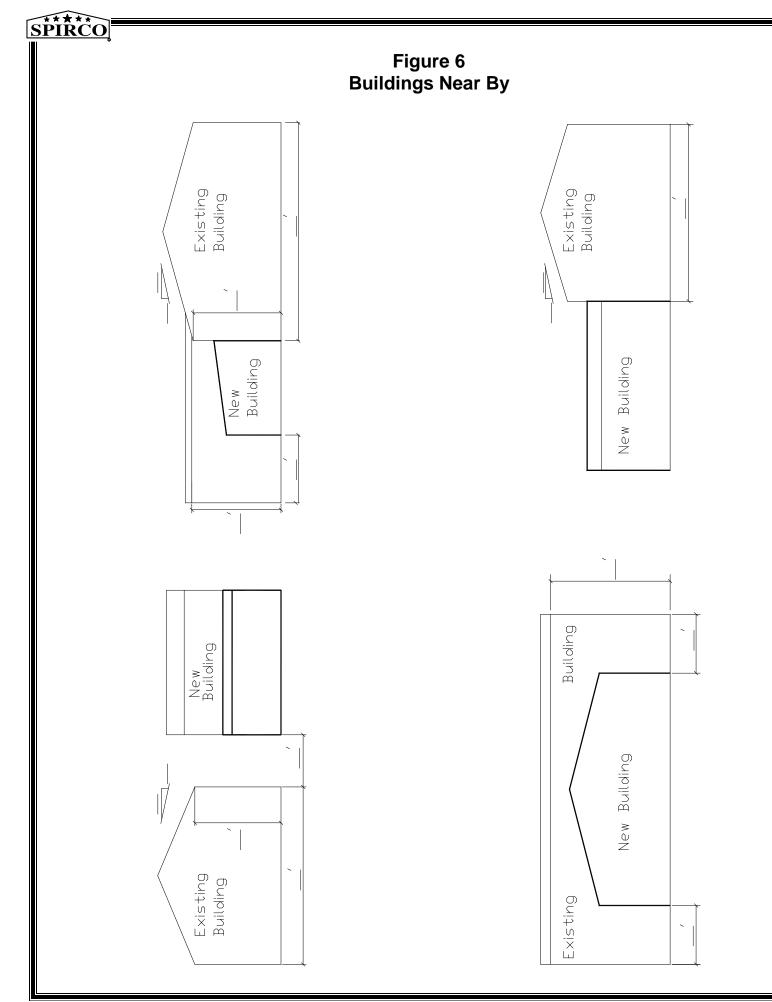


FIGURE 7

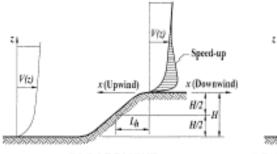
HILL OR ESCARPMENT DATA

If your building is located on the upper half of an isolated hill or escarpment, IBC may require your building to have an increased wind load. The term for this on the contract is topography effects. If the location of your building meets all the requirements given below then we must be provided with the information below.

Requirements: 1. The hill or escarpment is 60 feet or higher in exposure B or 30 feet or higher if located in exposure C:

- 2. The maximum average slope of the hill exceeds 10 percent; and
- 3. The hill or escarpment is unobstructed upwind by other such topographic features for a distance from the high point of 50 times the height of the hill or one mile, whichever is less.

 $V_{\rm b}$







LĿ

x (Upwind)

Speed-up

x (Downwind)

H/2

H/i

Selected one:

SPIRCO

- Escarpment
- o Hill

Provide Height (H) = _____ft

Provide Distance L_h=____ft

Provide Distance x = _____ft

Provide Distance z =____ft

H is the height of the peak of the hill or escarpment. L_h is the distance from the peak to a distance of H/2. x is the distance upwind or downwind from the peak of the hill or escarpment to the building site. z is the height above local ground level.

JOB NUMBER:
QUOTE NUMBER:
SALESMAN:
COORDINATOR:
CUSTOMER NUMBER:

Spirco Manufacturing is a division of Metal Building Products, Inc. 3861 Old Getwell Rd. Memphis, TN 38118

GENERAL INFORMATION



Voice 800-886-6257; Fax 901-363-6795

Standard Building

FINANCIAL INFORMATION

CUSTOMER INFORMATION		
CUSTOMER NAME: 1	NET PRICE F.O.B. PLANT\$	
	FREIGHT\$	
CUSTOMER MAILING ADDRESS:		
	TAX\$	
	TOTAL PRICE\$	
CUSTOMER PHYSICAL ADDRESS:		
	DEPOSIT\$	
	(Please mail if required)	
	**************************************	* * * * * * * * * * *
CITY: STATE: ZIP:		
	 STATE	00
ATTN		
	COUNTY	00
PHONE:FAX:		
	CITY	00
JOB INFORMATION		
2	OTHER	0/0
JOB NAME:		
	TAX BASE	
JOB ADDRESS:		
CITY: STATE: ZIP: 3	TAX NUMBER	
CITY:STATE:ZIP:		
	E-MAIL ADDRESS:	
COUNTY: USE:		
	CUSTOMER Ref:	
END USER:		
DRAWING ADDRESS:	BUILDING LABELING:	
DRAWING ADDRESS.	OCCUPANCY: 4	
CITY: STATE: ZIP:		
SIAIE. 21P.	Order Instructions Received	
	Release 02/23/2004	
CONTRAC		

CONTRACTUAL INFORMATION

This order is subject to corrections in pricing by Spirco and is limited to the information contained on this order form and the building purchase order sketch form. Unless otherwise specifically noted, this order is based on the standard design, materials, and manufacturing methods described in the Spirco general specifications. No other information is to be considered in the design or manufacture of the building. All orders are subject to final approval by Spirco at its office in Memphis, TN.

Subject to credit approval and to the terms and conditions contained in this order, Spirco proposes to furnish the structure described in this order using Spirco standard material. The purchaser hereby accepts full responsibility for the payment of all applicable sales and use taxes due on this order. See terms and conditions on last page, which are a part of this contract. Sales tax note: sales tax will not be charged if we hold a valid Sales Tax Exemption Certificate at the time of order entry. If the sales tax rate has increased at the time of shipment or invoice, the new sales tax rate will apply. The prices, specifications, and conditions are satisfactory and are hereby accepted, subject to the terms set forth above and others attached to heretofore, you are authorized to do the work as specified, as outlined above. This contract not valid unless signed and accepted by an officer of Spirco Manufacturing.

Complete deposits must be received as shown below and prior to the release of any drawings.

SIGN HERE TO RELEASE FOR FABRICATION:

PAYMENT TERMS: Deposit	due in 7 business days; Balance	COD (cashi	er's check)	
PURCHASER(COMPANY):			FEDERAL ID NUMBER:	
AUTHORIZED SIGNATURE:		TITLE	:	DATE:
ACCEPTED BY(For Spirco)	ERSON CAPABLE OF LEGALLY BINDING COMPANY	AUTHORIZED	SPIRCO REPRESENTATIVE	DATE:
				T

INITIAL

ORDER REQUIREMENTS

- WE WILL PROVIDE UP TO FOUR(4)SETS OF APPROVAL AND/OR PERMIT DRAWINGS. ADDITIONAL SETS ARE FURNISHED AT \$25 PER SET.
- PROJECTS REQUIRING APPROVAL WILL BE SCHEDULED FOR FABRICATION AND DELIVERY AFTER FINAL WRITTEN APPROVAL. NO DESIGN CALCULATIONS ARE FURNISHED UNLESS REQUESTED AT ADDITIONAL COST.
- ALL PERMIT DRAWINGS ARE SEALED AND ALL APPROVAL DRAWINGS ARE UNSEALED UNLESS REQUESTED OTHERWISE.
- DRAWINGS:
- Customer Quantity: Delivery by:
- End User Quantity: Delivery by:

Governing Code and Edition: 5

Basic Design Information

soverning code and		
		Loads Supplied By:
Enclosure Type	6	
Wind Load/Speed	7 Importance Factor: 8	
Wind Exposure	9 Topography Effects? If YES provide Figure 7 10	
Live Load	11 PSF Reducible? 12	
Snow Load	13 PSF	
Snow Exposure	14 Heated? 15	
Snow Importance	16	
Collateral Load	17 PSF Lights HVAC Ceiling Sprinkeler Other	
Auxiliary Loads	18 PSF	
Crane Loads	19 If YES provide Additional Information Sheet E	
Floor Loads	20 IF YES provide Additional Information Sheet D	
Seismic Factors	21	
Seismic Importance	22	
Soil Class/Profile	23	

Building	Description
Width -	Building Type:
Length -	Bay Spacing:
Eave Height -	Column Shape:
Roof slope -	Sidewall Girts: 24
Interior Columns	Endwall Girts:
Recessed? Depth	Structural Coating:
Roof Fasteners:	Wall Fasteners:
Sheeting	Bracing Base Condition
Left Endwall LEW	
Right Endwall REW	
Front Sidewall FSW	

Do doors, windows, and exterior materials FURNISHED BY OTHERS provide wind resistance per code?

If wall systems are By Oth	ers provide Addition	al Information S	heets A OR B A	vD C. <mark>25</mark>
Left Endwall Column Spacin	g :	Туре:		
Right Endwall Column Spaci	ng :	Туре:		
Base Closures:	Sheet Ledge:		Gutters &	Downspouts?
Is there a structural or g				
Deflection Requirements? 2		s not in SPIRCO	STANDARDS must	have deflection
requirements furnished on	the contract.			

Back Sidewall BSW

PAGE <u>3</u> OF _____

Sheeting

	Туре	Gage	Finish	1	UL90 Cert	Written Warranty	Rake Clos	sures
Roof	28							
Wall					N/A	No	N/A	
Insulati	on:				Standir	ng Seam Roof Inform	nation: 29	
	Туре		Thickness		Clips:			
Roof					Thermal	Blocks Required?		
Walls					Seamer?			
	Standard Ac	cessorie	s Q	ty	Non-S	tandard Accessorie	s Ç	Qty

|--|

Factory located openings must be shown on the attached sketch.

Qty	Size	Loca	ited	Covers	Qty	Size	Located	Covers

Overhangs and Extensions

All overhangs must be shown on the attached sketch.

	At or			Soffit			Gutters &
Wall	Below Eave	Elevation	Orient	Panel Type	Gauge	Finish	Downspouts
		#####					
		#####					
		#####					
		#####					

Facia

All Facia must be shown on the attached sketch.

			. Clear Face			Soffit				
Wall	Projection	Height	Elevation	Slope	Panel Type	Gauge	Finish	Panel Type	Gauge	Finish

Additional Information

PAGE 4 OF

1.All provisions of the presently effective Dealer Buyer Sales Contract by and between the Dealer (Buyer) signing below hereof and Spirco Manufacturing (SM) (Seller) are, by this reference, incorporated in this purchase order as fully as if they were stated herein, and said provisions will become and be a part of the contract of purchase and sale when this order is accepted by Spirco. 2. TAXES AND ADDITIONAL CHARGES: All quotations and sales are subject to increases without notification by;(a)the amount of any sales, excise or other tax leveled or charged by any governmental agency,(b)price adjustment necessitated by Seller's compliance with any governmental requirement, (c)the cost of any bonds required and/or (d) any price increases or surcharges levied by material suppliers or vendors after the execution of this contract. All sums accruing under (a), (b), (c) and (d) above will be added to the contract price and shall be paid by Buyer. Payment for additional work not included in the proposal but required by the Buyer shall be promptly made on the same basis as original sale. 3. DELIVERY: Buyer assumes full responsibility for furnishing Seller adequate roadways to the construction site. Seller will attempt

5. DELIVERT: Bayer assumes full responsibility for furnishing selfer adequate roadways to the construction site. Selfer will attempt to ship all orders on date requested, but cannot guarantee a specific delivery date. However, Buyer will be notified of the shipment date 1 week in advance unless otherwise agreed. **Upon delivery, it is Buyer's responsibility to unload the building within two hours. After two hours, charges will be paid by Buyer upon receipt of invoice from Seller.** 4. BUYER RESPONSIBILITY FOR ERECTION: It is Buyer's responsibility to select competent personnel to erect the structure for which

Seller furnishes the materials and erection drawings. Buyer will indemnify and hold Seller harmless from and against any claims asserted against Seller on account of injuries to persons or property arising from faulty erection work.

5. CANCELLATION OR DELAY BY BUYER: It is understood Seller is a custom fabricator and that if Buyer cancels an order which has been accepted by Seller, Buyer shall pay for all work done and all materials purchased to fill Buyer's order and will also pay Seller's overhead and anticipated profit on said work or 15% of the canceled order amount, whichever is greater. In the event Buyer causes delay in completion and/or delivery of Seller's work, Buyer shall pay all additional costs resulting from the delay, including, but not limited to, cost for repairs, charges for storage on Seller's property or elsewhere, as determined by Seller. In the event Buyer 6. SECURITY INTEREST RETAINED BY SELLER: Buyer hereby grants to Seller a security interest in all materials delivered to Buyer under this contract and all such materials shall remain personal property of the Seller until all sums due Seller are paid, in full, by Buyer. Buyer agrees to execute financing statements and such other documents as Seller may reasonably require to protect its security interest. By accepting said security interest, Seller does not waive its mechanic or materialmen's liens, which are hereby expressly retained.

7. CERTAIN RIGHTS OF SELLER: If Buyer fails to fulfill the terms of payment, or if Seller has reason to believe Buyer will not make as to Buyer's ability to perform. No failure of Seller to exercise any right arising from any default of Buyer shall constitute a

waiver of or impair Seller's rights in case of any subsequent default of Buyer. 8. GENERAL CONDITIONS: Seller's standard terms of payment are 20% down payment with order, the balance to be paid by cashier's check upon delivery. Seller will not be held responsible for collecting funds in excess of the contract amount. Additional funds determined by the buyer may be collected by seller at delivery as a courtesy to buyer. Buyer remains responsible for payment of the full contract amount regardless of the amount collected at delivery. Any deviation from these terms shall be subject to approval of

Seller's Credit Department. Credit terms, if granted, are to be determined by the Credit Department after completion of the necessary documentation and a credit check. Deductions for retentions are not allowed. Deductions for sales tax shall only be permitted when Buyer has presented documentation as required by the individual States and/or local taxing jurisdictions. Any payments deferred after the due date as specified herein shall bear interest at the rate of eighteen percent (18%) per annum. If an invoice is placed in the hands of an attorney for collection, or if collected by any legal proceedings, Buyer agrees to pay Spirco its reasonable attorney fees and costs incurred in the collection of sums owed by Buyer to Spirco on account of principal, interest, or other charges.

9. LEGAL DESCRIPTIONS: Seller is fully authorized at anytime to fill in and insert the legal description of the real estate upon which the materials being furnished by Seller per this contract are to be located. 10. MATERIAL TO BE FURNISHED: This contract covers only items specifically set out in the building purchase order. In the event of conflict between drawings and the building purchase order, only material listed in the building purchase order will be furnished. All materials furnished are to be governed by Spirco specifications only, and any variance or deviation must be so stated on the wilding numbers under all them protected on the building burchase order will be the protected on the building burchase order. building purchase order. All other material furnished will be at extra charge. 11. MBMA MANUAL: The Metal Building Manufacturer's Association "LOW RISE BUILDING SYSTEMS MANUAL," current edition, is part of this

familiarity with the contents therein. By execution of this Contract, Buyer acknowledges receipt of this code and complete familiarity with the contents thereof. 12. SHORTAGES, DAMAGES, AND BACK CHARGES: If, in the opinion of the Buyer, any material is damaged prior to receipt by Buyer to a degree that will prevent use of such material with minor field repair, delivery of damaged material shall be refused by Buyer, noted by item on shipping documents as "damaged'" and returned on delivering truck to Seller or to common carrier. Under no circumstances shall damaged material which cannot be used with minor field repair be unloaded at jobsite. Seller shall not be liable for the Shall damaged material which cannot be used with minor repair be unbaded at jobsite. Seller shall not be frank to be used with minor repair be unbaded at jobsite. Seller shall not be frank to be the "LOW RISE BUILDING SYSTEMS MANUAL," governing the correction of errors and repairs, and material count, Seller shall not in any event be liable for labor charges or consequential damages arising from the use of defective materials. It is further agreed that no back charges or offsets of any kind will be accepted by Seller unless agreed to in writing. Seller's only liability for shortages will be furnishing of said shortages. All shortage and/or claims must be reported no more than 7 days after delivery. No back charges will be accepted for delays, equipment costs, or corrective actions unless agreed to, in writing, in advance of charges being incurred.

Buyer must provide receipts and documentation to validate all work was performed, and/or materials were purchased. 13. WARRANTY: Seller makes no warranties of any nature whatsoever except that Seller's materials and/or work are warranted in

accordance with warranties that are a part of this contract and are requested by Buyer at the time of the order. All other warranties of any nature whatsoever including but not limited to warranties of merchantability and fitness to purpose, express or implied, by operation of law or otherwise are excluded from this contract. Seller's liability is limited as set forth on the warranties, if any, mentioned on the face of this contract and Seller shall not be liable for any other damages whether direct or consequential, incidental, exemplary, liquidated, or punitive including loss of use which may be suffered by Buyer. Seller shall comply with specifications governing material workmanship, design procedure and design loads which are expressly provided in the building purchase order. Materials or workmanship sold hereunder for which specifications are not expressly provided in the building purchase order shall be subject to Seller's standard variances, tolerances, and specifications current as of the building purchase order date. Any alterations to building system will void all warranties and we will assume no liability for altered building systems.

14. CODE COMPLIANCE: Buyer agrees that it will be his responsibility to see that any building ordered from Seller meets local codes or regulations. Seller guarantees only that the buildings will meet specific loadings from models outlined in the building purchase order. Seller reserves the right to change design or make structural substitutions which do not materially affect the strength of the buildings covered under the building purchase order.

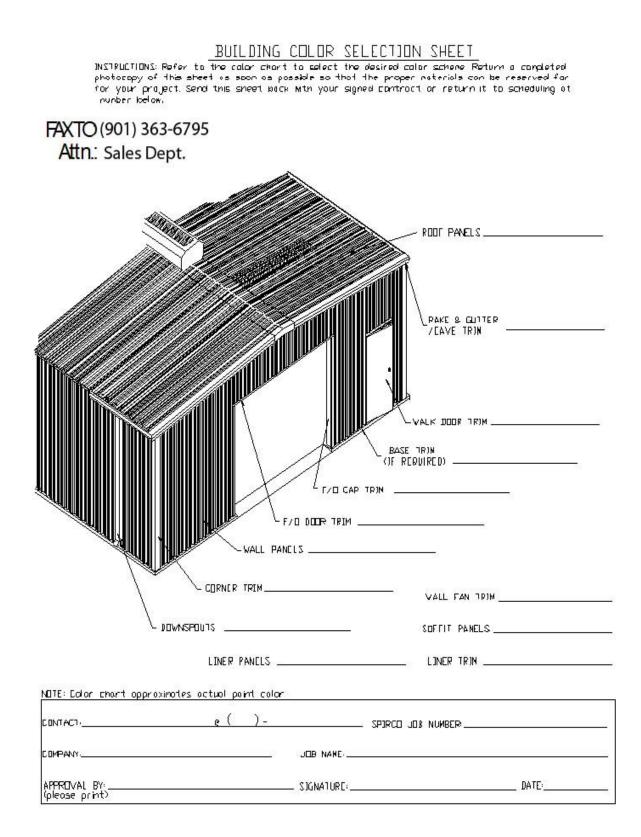
15. SEPARATE SHIPMENTS: Seller reserves the right to divide this contract into separate shipments and invoice such shipments separately, in which case each shipment shall be deemed a separate contract and payment thereof due in accordance with the terms hereof. Seller will not be responsible for spotting, switching, drayage, demurrage, or other transportation unless agreed to in writing on the reverse hereof. If because of default of Buyer, any shipment must be delivered or returned to Seller, Buyer shall pay all demurrage, transportation and other costs incurred as a result thereof.

16. PICTURE RELEASE: In signing this contract, Buyer gives Seller permission to use any visual representations of the above specified project in any way Seller wishes.

17. IT SHALL BE THE FULL RESPONSIBILITY OF BUYER TO CAREFULLY CHECK ORDER ACKNOWLEDGMENTS IMMEDIATELY UPON RECEIPT AND TO NOTIFY SELLER OF ANY DISCREPANCY.

18. Spirco Manufacturing shall not be held responsible for any delays or cancellations due to strikes; riots; acts of God; shortages of materials or labor; war; governmental laws, regulations, or restrictions; financing; or any cause whatsoever beyond their control.

19. Spirco Manufacturing is a division of Metal Building Products, Inc (a Tennessee Corporation). Any matters requiring adjudication shall be heard in the appropriate division of Tennessee Courts in Memphis, Tennessee. Buyer consents to the jurisdiction and venue of the courts of Shelby County, TN and Buyer agrees that all actions will be brought in that forum.
20. ENTIRE AGREEMENT: This writing is intended by the parties as a final expression of their agreement, and it is intended also as a complete and exclusive statement of the terms of their agreement. It is specifically understood and agreed that Seller shall have no liability whatsoever under any contract between Buyer and other parties, unless Seller agrees thereto, in writing, at the time of acceptance of the approval.



	Explanation of Contract
Note:	To help avoid input errors start with a blank contract each time.
	Heading, Front Page: (Completed by SPIRCO)
Job Number:	A job number will be assigned to your contract upon signing and entering the contra our system.
Quote Number:	This is the number assigned to your project by our Estimating Department wh project was estimated.
Salesperson:	This District Manager handles your account.
Coordinator:	This Sales Coordinator handles your account.
	General Information (Completed by the Buyer)
Customer Name: Customer Mailing A	This is the Company Name of the buyer of this building project. Address: This is the mailing address of the buyer. Required for all drawings and materials mailed to the buyer from SPIRCO.
Customer Physical A	Address: This is the physical address of the buyer. This is also required and is used materials sent overnight to the buyer by SPIRCO.
City:	The buyer is located in this city.
State:	The buyer is located in this state.
Zip:	The buyer is located in this zip code.
Attn:	This is the contact person who is responsible for handling the project. All items ma
Dhanai	sent from SPIRCO will be to this person's attention.
Phone: Fax:	Phone number including area code of the buyer. Fax number including area code of the buyer.
lah Nama	Shipping Information (Completed by the buyer)
Job Name: Job Address:	This is the name of the project usually designated by the end user. This is the physical address of where the building project will ship.
City:	This is the city of the building project ship-to location.
State:	This is the state of the building project ship-to location.
Zip:	This is the zip code of the building project ship to location.
County:	This is the county of the building project ship-to location.
Use:	This is the exact category describing the building use of this project.
End User:	This is the name of the end user, who will own the building.
Drawing Address:	This is the address of the end user. This is also required and is used for any ma
City:	mailed or sent overnight to the end user by SPIRCO. The end user is located in this city.
State:	The end user is located in this state.
Zip:	The end user is located in this state.
Not Brice E.O.B. Blar	Financial Information: (Completed by SPIRCO)
	ht: This is the price of the building project less freight and taxes. This is the cost of shipping your project to the ship-to location. This is often shown and taxes.
Freight:	"included" if SPIRCO will be shipping the project.
Tax:	This is the total amount of taxes charged to this project. Just below this area, you wa heading of "Tax Information". This will show you a breakdown of the taxes. We customer is tax exempt, this will show "exempt". If the customer is not exempted as the taxes of the taxes are taxed as the taxes of the taxes.
Total Drives	SPIRCO does not collect the required taxes, "by others" will be shown.
Total Price:	This is the total price of the project, including taxes and freight.
Deposit:	This is the amount of the deposit you will need to mail to SPIRCO. The amount deposit depends on the payment terms the buyer has been approved. It is important is your deposit as seen approved has been approved.
	mail in your deposit as soon as possible, because your project will not go to fabr until the deposit has been received.
Tax Information:	This is the breakdown of all applicable taxes required on the building project. The
	location for all tax-exempt customers to write in their tax number. A copy of yo
	exemption is required to be mailed in as soon as possible.
E-Mail Address:	The buyer's address where any needed e-mail communications should be sent.
Building Labeling:	Specify if this building will show SPIRCO logos or Private Label logos.

Specify what occupancy category this building is.

SPIRCO

Occupancy: Order Instruction Received: Check this box if you have our latest order instructions if not call your salesperson and they will get you a copy.

Contractual Information

	oondotdal monadon
Release for Fab:	Sign here to release your building for fabrication. Without this signature, your project will
	be unable to be released to production.
Payment Terms:	These are the payment terms assigned to the buyer. Other terms are available and can
	be granted upon receipt of our Credit Application and Personal Guarantee. Standard
	payment terms are 20% down payment, and the balance COD (Cashiers Check).
Purchaser:	This is the company name of the buyer purchasing the project. The name should be the
	same as the "Customer Name" located under the "General Information" heading.
Federal ID Number:	If the company purchasing the project has been assigned a Federal ID Number, please
	write the number in this location.
Authorized Signature:	This is the signature of the person who is an authorized agent of the buyer to purchase
	this project from the seller.
Title:	This is the title of the authorized purchaser.
Date:	Specify the date on which you signed this contract.
Accepted by:	This is the signature accepting the contract by an approved representative of SPIRCO.
Date:	This is the date of the contract's acceptance by SPIRCO.
	· · · ·

Order Requirements:

This is where we communicate what type of drawings SPIRCO will provide for the project. However, other options are available. For each set of sealed permit drawings one sealed Letter of Certification will be provided. See "Explanation of Drawing Requirements" for more information.

Drawings:	Please specify the type of drawings you require and specify whether you need the engineer to seal the drawings.
Customer Quantity:	Specify the quantity of drawing sets the customer is to receive.
End User Quantity:	Specify the quantity of drawing sets the end user is to receive.

Basic Design Information: (Refer to the Order Instructions for clarifications)

* References below to "local code" are to the governing code at the ship-to location.

Governing Code And Edition: This is the local building code and edition specified by the code authorities where the building will be located

Enclosure Type:	Specify if the building is enclosed, open, or partially enclosed as defined on figure 3.
Wind Load/Speed:	Specify wind load/speed (psf or mph) according to local code.
Importance Factor:	This is a factor applied to the wind load according to the building use.
Wind Exposure:	Specify wind exposure according to local code. For SBC this is not applicable, but all other national codes should have the wind exposure specified as defined on figure 2.
Topography Effects:	If the building is on a hill as described on figure 7 we need this information.
Live Load:	Specify the live load and note if a reduction is allowed to the frames or if there is no load reduction allowed.
Snow Load:	Specify the snow according to local code and indicate if it is ground snow or roof snow.
Snow Exposure:	Specify the snow exposure according to local code. The options are fully exposed, partially exposed or sheltered. Tell us if the building is heated. See section 14 of these instructions for a further explanation.
Snow Importance Fac	tor: Specify the importance factor according to local code.
Collateral Loads:	Specify the collateral loads needed to support any added items, which will be attaching in any way to the roof.
Auxiliary Loads:	Specify any auxiliary load needed to support any items supported by the project.
Crane Loads:	Specify all applicable crane loads and give description of the type of crane. The location will be shown on the building sketch. It is advised that the crane loads come from the manufacturer of the crane. Provide Additional Information Sheet E.
Floor Loads:	Specify any floor loads, which will be attaching to the building project in any way. Location
	and description will also be required. Provide Additional Information Sheet D.
Seismic Factors:	Specify these seismic factors according to the code. For SBC and BOCA provide Aa and Av. For UBC provide seismic zone. For IBC provide Ss and S1.

• ·····	The first second state of a second second second in a second in the second se
Seismic Importance: Soil Class/Profile:	This is a factor applied to the seismic load according to the building use. This is the building site's soil type or conditions. This is used to determine the soloads on the building. See section 17 of these instructions for further explaination.
	Building Description:
Width:	Specify the nominal width of the building.
Length:	Specify the nominal length of the building.
Eave Height:	Specify the height from finished floor to the top of the eave strut. (Sidewall)
Roof Slope:	Specify the roof slope of the building.
Interior Columns:	Specify how many interior columns are desired on each mainframe line and the typ desired. Spirco's standard interior column is pipe.
Recessed:	Specify if the interior columns are to be recessed below the finished floor and how
Roof Fasteners:	Specify what type of roof fasteners are to be used.
Building Type: Bay Spacing:	Specify the type of building: Gable, Single-Slope, Lean-To, or other Specify if the sidewall bay spacing is "uniform" (equal) or "non-uniform". Show the
Columns:	sidewall spacing on the building sketch. Specify "straight" or "tapered allowed" sidewall mainframe column shapes
Sidewall Girts:	Specify if the sidewall girts are flush or bypass.
Endwall Girts:	Specify if the endwall girts are flush or bypass.
Structural Coating:	Specify the type and or color of the structural coating
Wall Fasteners:	Specify what type of wall fasteners are to be used.
Sheeting:	Specify if the specific wall is solid sheeted, open, or partially sheeted at each wall I shown.
Bracing:	Specify "X-Bracing Allowed" or "Alternative Bracing". You may not be allowe brace, and may note other bracing options. Specify the bracing at each wall
	shown.
Base Condition:	Specify the base condition on each wall location shown. This includes base angle girts, formed base trim, etc.
Left Endwall Column	Spacing: Standard or See Sketch. Standard means the engineer will space the c
	to provide the best design. See Sketch means the customer is specifying the spacing on the building sketch. From left to right, facing the endwall, specify the
Туре:	spacing. Specify the type (post and beam, rigid frame, or no frame) of the left endwall. A
	salesperson for explanation of type's if not known. n Spacing: Standard or See Sketch. Standard means the engineer will space the c
	to provide the best design. See Sketch means the customer is specifying the
	spacing on the building sketch. From left to right, facing the endwall, specify the spacing.
Туре:	Specify the type (post and beam, rigid frame, or no frame) of the right endwall. A
Base Closures:	salesperson for explanation of type's if not known. Specify "Yes" or "No" for base closures. If the building is not insulated, base closu
Dase Glusules.	specify res of No for base closures. If the building is not insulated, base closu
Sheet Ledge:	Specify "Standard" for Spirco's standard sheet ledge of 2" x 1 1/2" or specify what
	sheet ledge is required.
Is there a structure or	r geographic anomaly within 20 ft? Please specify either "Yes" or "No". If yes, ac
	information on the existing structure may be required and you will need to sh location on the building sketch. Provide figures 5 and 6.
Deflection Requireme	ents? Specify any non-standard deflection limitations at this location. If the deflimitations are standard, please note as "Standard". Please review standards in 10, tables 3.1, 3.2, 3.3, and 3.4. Material not listed require deflections limits contract.
Gutters & Downspout	ts? Specify "Yes" or "No"
	Sheeting
Roof Type:	Specify the type of roof such as "PBR", "SSR", or "Other". If the type is, "SS Standing Seam Roof Information. If it is "Other", provide the additional information

Wall Type:	Specify the type of wall panel such as "PBR", "Reverse PBR", or "Other". If it is "Othe provide the additional information in the appropriate section. If wall systems are by othe provide Additional Information Sheets A or B and C.
Gauge:	Specify the gauge of the roof panels and the wall panels.
Finish:	Specify "galvalume" "standard color", etc. for the roof and wall panels.
UL90 Cert.	Specify either "Yes" or "No" for the roof panels.
Written Warranty:	Specify either "Yes" or "No" for the roof and wall panels.
Rake Trim Closures:	Specify "Yes" or "No" for the roof panels. This does not apply to the wall panels and shown as "N/A".
Insulation:	Specify "By SPIRCO" if the building is insulated and SPIRCO is providing the insulatio "By Others" if the building is insulated and the insulation is provided by others, or "N/A" the building is not insulated.
Roof and Walls:	
Туре:	Specify the type of insulation for the roof and walls.
Thickness:	Specify the thickness of the insulation in the roof and walls.
-	Information: Specify the name of the standing seam.
Clips:	Specify the type of standing seam clips or per manufacturer.
-	iired? Note as "N/A", "Per Manufacturer", or "No".
Seamer:	Specify "No" or see "Additional Information".
	s:Specify the size, color, and quantity of all standard accessories to be included wi building.
	sories: Specify the size, color, and quantity of all non-standard accessories to b included with building.
Framed Openings:	Specify the size, location, and quantity of all framed openings included with buildin Also, specify if head and jamb covers are to be included. The wall and bay must be specified here if any of the doors are field located. All factory located doors must be shown on the sketch.
	vs furnished by others provide wind resistance per code?: Answer this question so v
Do doors and window	
Do doors and windov	can properly design your building. See section 12 of these instructions for furth explanation.

Please write in any items or information, which is a part of the building structure, important additional design information, special non-structural accessories, or structural accessories.

Building Sketch

A sketch is required for each building on each contract. The sketch should show a top view with bay spacing, each wall elevation, all framed opening locations, and any other information needed to properly design the building.

Terms and Conditions

Each contract includes the standard terms and conditions of the contract document. It is very important that each buyer reads and fully understands the terms and conditions. The information is very specific and could head off any future misunderstandings.

Thank you for choosing our company to service your building needs. We understand there are many other companies you could have chosen. If you need further assistance with our contract documents, please contact your sales representative.

Explanation of drawing requirements on contract:

* Three copies of the anchor bolt plan and erection drawings are sent with the building delivery with every order. * One letter of certification is sent with every order as an added benefit to the customer. Additional copies can be requested under the "Order Requirements" page of the contract and may require an additional charge.

Additional Options:

<u>Erection Drawings:</u> Three copies of the erection drawings are sent with every building. When erection drawings with an Engineer's seal are requested, they are processed when the building is sent from drafting to production. Sealed erection drawings will be sent by mail around the time the building is scheduled for delivery.

<u>Permit Drawings</u>: Anchor bolt plans and permit drawings are generated and usually sealed by the Engineer unless specified otherwise on the contract. One copy of the letter of certification is provided with each copy of permit drawings. On a standard building permit drawings usually take 2 to 3 weeks to receive after all information is received. For complex buildings it will take longer. The "Release for Fabrication" must be signed for the building to be scheduled for fabrication. With the release signed and the building is scheduled you will receive a letter in the mail stating the week the job is scheduled for delivery. If the release is not signed, the job will be placed on "Permit Hold" and you will receive a letter stating that the job is on hold. When the job is on "Permit Hold", there will not be any more work beyond permit drawings performed on the job until notice is sent to us in writing to release the job for fabrication. At this point the building will be scheduled for fabrication.

<u>Approval Drawings</u>: Approval drawings will be provided, only if they are requested on the contract. An Engineer's seal is available on the approval drawings if requested on the contract. On a standard building approval drawings usually take 2 to 3 weeks to receive after information is received. For complex buildings it will take longer. You cannot sign the release for fabrication on jobs requiring approval. Approval drawings must be signed on and returned to us with authorization to start fabrication as stated on the plans.

<u>Design Calculations:</u> Formal calculations will be provided at additional cost if requested. Make sure that your salesperson is aware of this requirement so they can price the project properly. If the calculations are not quoted, you cannot add them to the contract without a change order for the additional charges.



Hold Definitions

ANY JOBS PLACED ON HOLD SHALL BE REMOVED FROM THE SCHEDULE IMMEDIATELY.

Spirco uses six different hold categories in order to better control unnecessary costs to both the customer and Spirco. These holds are defined below. The customer typically uses the first four types listed in order so they may get their part of the construction process ready to receive the building. The manufacturer typically uses the last two holds to stop work when there are questions about the project or the contract requirements are not met.

APPROVAL HOLD "A"

- The customer must return signed final approval drawings to the drafting manager before the job will be scheduled.
- Any changes to the approval drawings will be forwarded to sales and a change order will be required.
- The drafting manager will inform the scheduling manager to schedule the job.
- Spirco will begin detailing the job when it is placed in the schedule.

CUSTOMER HOLD "C"

- The customer wants the entire project stopped.
- Spirco will schedule the job, after it is removed from customer hold in writing. Spirco will begin detailing the job when it is placed in the schedule

PERMIT HOLD "PE"

- The customer does not have permits.
- The customer must request permit hold no later than 4 weeks prior to delivery.
- Permit drawings will be sent and then all work will stop.
- Spirco will schedule the job, after removal from permit hold in writing. Spirco will begin detailing the job when it is placed in the schedule

PRODUCTION / FABRICATION HOLD "PR"

- The customer does not want the building fabricated.
- Spirco will continue detailing until the job is ready for fabrication. Spirco will schedule the job, after it is removed from production hold in writing.

DEPOSIT HOLD "D"

- If a deposit is required on the contract and has not been paid three weeks before delivery, the job is automatically placed on deposit hold.
- The scheduling manager will call the customer, fax a letter to the customer, and then mail a letter to the customer stating that the deposit has not been received and the job has been removed from the schedule.
- This job will not be rescheduled until the deposit check is in Spirco's possession.

ENGINEERING HOLD "E"

• The Engineering department may put a job on hold when questions have gone unanswered or there are potential problems with the contract and the design application. Delays due to unanswered questions from the Engineering Department can cause problems with the schedule of the job in question and other jobs. Therefore, answers to questions by design must be returned within 48 hours and answers to questions by drafting must be returned within 24 hours to avoid engineering hold. The Engineering department will inform the scheduling manager to reschedule the job when all questions have been answered.

Any job on hold for more than 90 days is subject to re-pricing at the manufacturer's discretion. A job is officially on hold when the phone call informing the customer and a letter to the customer from scheduling has been faxed and mailed. No job placed on hold by the customer will be removed from hold without written authorization from the customer.

Metal Building Systems Manual

IX. Wind, Snow, Seismic and Rain Data by U.S. County

9.1 Introduction

SPIRCO

In this section, climatological data are tabulated by U.S. County. The methods used to determine each of the values are given below. Using a single point to represent an entire county may produce substantial errors for counties with large areas or closely spaced load contours. For example, in Alaska the large political divisions are not conducive to assigning a single value. The values given should only be used as a relative guide. The maps should be referred to for the appropriate design parameters. Loads should be used with caution since local conditions may be more severe than indicated here. Check with the authority having jurisdiction for local requirements because they may supersede the values shown here.

Seismic spectral response values were obtained from the Earthquake Ground Motion Parameter Java Application provided by the U.S. Geological Survey Earthquake Hazards Program. The application can be downloaded from the USGS website: <u>http://earthquake.usgs.gov/research/hazmaps/design</u>. Values were taken at the county seat location, rather than the geographic center of the county. For areas of high seismic activity, taking the value at the county seat and assigning it to the entire county may be significantly unconservative for ground motion values. The recommended approach, in areas of high seismicity, is to use the USGS Java application to input the actual latitude and longitude of the project site. This method yields the most accurate spectral response values. The latitude and longitude can be readily obtained from the site street address from a source such as <u>http://terraserver.microsoft.com</u>.

Ground snow loads are based on ASCE 7-05 Figure 7-1 (Table 7-1 for Alaska) and are also reproduced in IBC 2006 as Figure 1608.2 (Table 1608.2 for Alaska). Wind velocities are based on ASCE 7-05 Figure 6-1 that is also reproduced in IBC 2006 as Figure 1609. Note that counties with all or part of their boundary in a "Special Wind Region" are marked with an asterisk after the basic wind speed. Special consideration should be given to these regions where records or experience indicates that wind speeds are higher than those reflected in the ASCE or IBC figure or the county listing.

For wind velocity, values were determined by linear interpolation between the two contours on either side of a county using the approximate geographic center of the county. Ground snow load was not interpolated, that is, the value of the snow load at the point chosen for geographic center of the county was used. Counties that have areas within the IBC designated wind borne debris regions are noted with the basic wind speed in bold type. These counties may include hurricane-prone regions which are within one mile of the coastal mean high water line and where the basic wind speed is 110 mph or greater; or where the basic wind speed is 120 mph or greater; or Hawaii. Because these areas generally have closely spaced contours along the coastline, the design wind speeds should be carefully evaluated based on where the actual building is located on the ASCE or IBC figures.

Rainfall intensities were determined somewhat differently. The contour maps found in the Weather Bureau Technical Paper No. 40 (and updated information later published in NOAA HYDRO-35), for thirty-minute duration storms with return periods of five and twenty-five years was used. The values of the contours were adjusted to reflect 5-minute duration by using the factor found in the papers. Counties were primarily assigned whole number values based on their proximity to the contour lines in the NOAA maps. Use of the MBMA rainfall values is voluntary. The shorter recurrence intervals and storm durations herein are more conservative than those required in the 2006 International Building Code and International Plumbing Code. For areas in the "Semiarid Southwest", and Ohio River Valley and surrounding states, NOAA Atlas 14 contains up-to-date information. NOAA Atlas 14 is available online at: http://hdse.nws.noaa.gov/hdse/pfds/index.html

IX. Climatological Data by County

Metal Building Systems Manual

LEGEND

S: Ground snow load for 50-yr. mean recurrence interval in pounds per square foot (psf).

() Numbers in parentheses represent the upper elevation limit in feet for the ground snow load value given. Refer to ASCE 7-05 Figure 7-1 or IBC 2006 Figure 1608.2 for other ground snow loads that may be available for higher elevations.

CS Indicates site-specific case study is required.

W: 3-second gust wind speed for 50-yr. mean recurrence interval in miles per hour (mph).

* Indicates part of the county is in a "Special Wind Region" and may require special consideration or local knowledge of actual wind speeds.

Basic wind speeds in **bold type** indicate that the county may have areas that are designated as wind borne debris regions.

- $S_s:$ 0.2 Second spectral response acceleration (5% critical damping). 2% probability of exceedance in 50 years.
- S1: 1.0 Second spectral response acceleration (5% critical damping). 2% probability of exceedance in 50 years.
- T_L : Long-period transition period. Counties that share more than one value have all values within the county listed. In these counties it is strongly suggested that the maps found in ASCE 7-05 be referenced to obtain the correct value for the project location.
- I1 : Rainfall Intensity (inches per hour). 5-minute duration 5-year recurrence — Indicates rainfall intensity is undefined.
- I2 : Rainfall Intensity (inches per hour). 5-minute duration 25-year recurrence — Indicates rainfall intensity is undefined.

	M	etal Buil	ding Sys	stem	s Mar	iual				IX. Clin	natologic	cal E	Data b	y Count	<u>y_</u>
s	W	Ss	S ₁	11	12	ΤL	County Name	S	w	Ss	S ₁	11	12	ΤL	County Name
5	96	0.163	0.071	8	11	12	ALABAMA Autauga	100 60	130 90	1.792 1.105	0.668 0.305	_	_	16 6/16	Cordo∨a Fairbanks
õ	130	0.125	0.055	10	12	12	Baldwin	60	90	0.466	0.139		_	16	Fort Yukon
5	98	0.125	0.061	8	11	12	Barbour	60	110	0.349	0.102	—	—	16	Galena
5	92	0.223	0.083	8	11	12	Bibb	70	95	0.873	0.310	_	Ξ	16	Gulkana
10 5	90 98	0.305 0.136	0.100 0.065	7 8	10 11	12 12	Blount Bullock	40 60	130 100	1.464 0.606	0.558 0.286	_	_	16 12	Homer Juneau
5	104	0.133	0.063	9	11	12	Butler	70	120	1.292	0.480	_	_	16	Kenai
5	90	0.275	0.091	8	10	12	Calhoun	30	130	1.790	0.664	—	—	16	Kodiak
5	92	0.179	0.075	8	11	12	Chambers	60	120	0.427	0.129	—	—	6	Kotzebue
5 5	90 93	0.340 0.201	0.101 0.078	7 8	10 11	12 12	Cherokee Chilton	70 80	95 90	0.373 1.050	0.130 0.295	_	_	16 6/12	McGrath Nenana
5	103	0.201	0.078	9	11	12	Choctaw	70	130	0.511	0.295		_	6	Nome
5	105	0.151	0.066	9	11	12	Clarke	50	110	1.413	0.539	_	_	16	Palmer
5	90	0.231	0.083	8	10	12	Clay	150	110	0.187	0.178	—	—	12	Petersburg
5 0	90 107	0.261 0.114	0.089 0.057	8 9	10 11	12 12	Cleburne Coffee	40 50	130 130	0.263 1.785	0.096 0.665	—	—	16 16	St. Paul Seward
10	90	0.342	0.037	9 7	9	12	Colbert	25	130	1.272	0.490	_	_	16	Shemya
5	109	0.130	0.059	9	11	12	Conecuh	50	120	0.950	0.489	_	_	12	Sitka
5	93	0.200	0.078	8	11	12	Coosa	120	100	1.271	0.428	—	—	16	Talkeetna
0	110	0.117	0.056	9	11	12	Covington	50	130	0.323	0.095	—	_	16	Unalakleet
5 10	103 90	0.125 0.298	0.060 0.105	9 7	11 10	12 12	Crenshaw Cullman	160 300	120 120	1.487 1.767	0.577 0.657	\equiv	_	16 16	Valdez Whittier
0	104	0.113	0.057	9	11	12	Dale	60	110	0.169	0.153	_	_	12	Wrangell
5	98	0.165	0.072	8	11	12	Dallas	150	120	1.800	0.675	—	—	12	Yakutat
10	90	0.380	0.107	7	9	12	De Kalb								
5 0	95 116	0.166 0.125	0.071 0.056	8 9	11 11	12 12	Elmore Escambia	5(5000)	90	0.234	0.068	4	6	4/6	ARIZONA Apache
5	90	0.125	0.038	9 7	10	12	Etowah	0(3500)	90 90	0.234	0.088	5	7	4/0	Cochise
10	90	0.295	0.105	7	10	12	Fayette	0(3000)	90*	0.397	0.115	4	6	6/8	Coconino
10	90	0.322	0.124	7	9	12	Franklin	0(3500)	90	0.374	0.102	5	7	6	Gila
0	111	0.104	0.052	9	11	12	Gene∨a	0(3500)	90	0.278	0.082	5	7	6	Graham
5 5	93 94	0.216 0.200	0.086 0.081	8 8	11 11	12 12	Greene Hale	CS 0(2000)	90 90	0.311	0.088	4 4	6 6	6 6/8	Greenlee La Paz
ŏ	100	0.116	0.058	8	11	12	Henry	0(2000)	90	0.216 0.178	0.144 0.061	4	7	6	Maricopa
0	106	0.108	0.054	9	11	12	Houston	0(3000)	90	0.268	0.089	4	6	8	Moha∨e
10	90	0.343	0.108	6	9	12	Jackson	0(3000)	90*	0.178	0.057	4	6	4/6	Na∨ajo
5 10	90 90	0.305 0.288	0.096 0.109	8 7	10 10	12 12	Jefferson Lamar	0(3000)	90	0.284	0.081	6	8	6	Pima
10	90	0.288	0.103	7	9	12	Lauderdale	0(2000) 0(3500)	90 90	0.254 0.212	0.076 0.066	5 6	8 9	6 6	Pinal Santa Cruz
10	90	0.300	0.115	7	9	12	Lawrence	CS	90	0.345	0.101	4	7	6/8	Yavapai
5	94	0.161	0.071	8	11	12	Lee	0(1000)	90	0.641	0.253	4	6	6/8	Yuma
10 5	90 99	0.303 0.147	0.116 0.067	6 8	9 11	12 12	Limestone Lowndes								
5	99 96	0.147	0.067	8	11	12	Macon	10	90	0.601	0.190	8	10	12	ARKANSAS Arkansas
10	90	0.302	0.111	6	9	12	Madison	10	90	0.001	0.190	8	11	12	Ashley
5	98	0.175	0.075	9	11	12	Marengo	15	90	0.433	0.151	7	10	12	Baxter
10	90 90	0.306	0.117	7	10	12	Marion	15	90	0.192	0.087	8	11	12	Benton
10 0	90 130	0.308 0.117	0.104 0.053	7 10	9 12	12 12	Marshall Mobile	15 10	90	0.313	0.120	8 8	10	12	Boone Bradley
5	106	0.140	0.062	9	11	12	Monroe	10	90 90	0.320 0.283	0.120 0.109	8 8	11 11	12 12	Calhoun
5	98	0.154	0.069	8	11	12	Montgomery	15	90	0.246	0.103	8	11	12	Carroll
10	90	0.296	0.113	7	9	12	Morgan	10	90	0.314	0.119	8	11	12	Chicot
5 5	95 90	0.188 0.253	0.078 0.097	8 8	11 10	12 12	Perry Pickens	10	90	0.305	0.112	8 7	11	12	Clark
5	100	0.255	0.097	8	11	12	Pike	10 10	90 90	1.500 0.677	0.437 0.203	7	9 10	12 12	Clay Cleburne
5	90	0.217	0.082	8	10	12	Randolph	10	90	0.370	0.132	8	11	12	Cleveland
5	96	0.150	0.069	8	11	12	Russell	5	90	0.209	0.088	8	11	12	Columbia
5 5	90 90	0.302 0.250	0.098 0.086	8 8	11 10	12 12	St. Clair Shelby	10	90	0.451	0.148	8	11	12	Conway
5	97	0.200	0.082	8	11	12	Sumter	10 10	90 90	2.775 0.211	0.709 0.089	7 8	10 11	12 12	Craighead Crawford
5	90	0.266	0.089	8	10	12	Talladega	10	90	1.500	0.517	7	10	12	Crittenden
5	93	0.182	0.075	8	11	12	Tallapoosa	10	90	1.889	0.550	7	10	12	Cross
5 10	90 90	0.265 0.314	0.093 0.105	8 7	10 10	12 12	Tuscaloosa Walker	10	90	0.325	0.120	8	11	12	Dallas
5	90 111	0.314	0.065	9	11	12	Washington	10 10	90 90	0.374 0.340	0.135 0.126	8 8	10 11	12 12	Desha Drew
5	100	0.149	0.067	9	11	12	Wilcox	10	90	0.531	0.120	8	10	12	Faulkner
10	90	0.300	0.110	7	10	12	Winston	10	90	0.244	0.101	8	11	12	Franklin
								15	90	0.579	0.183	7	10	12	Fulton
30	130	1.762	0.692			16	ALASKA Adak	10	90	0.335	0.120	8	11	12	Garland
50 50	110	1.762	0.692	_	_	16	Anchorage	10 10	90 90	0.409 1.500	0.141 0.530	8 7	11 10	12 12	Grant Greene
70	120	0.688	0.314	_	_	12	Angoon	10	90 90	0.213	0.089	8	11	12	Hempstead
25	120	0.017	0.004	—	—	6	Barrow	10	90	0.357	0.126	8	11	12	Hot Spring
35	110	0.141	0.044	—	—	6	Barter	10	90	0.212	0.089	8	11	12	Howard
40 50	120 90	0.293 0.621	0.094 0.248	_	_	16 12	Bethel Big Delta	10	90	0.779	0.230	7	10	12	Independence
25	130	1.192	0.246	_	_	12	Cold Bay	10 10	90 90	0.629 1.081	0.195 0.306	7 7	10 10	12 12	lzard Jackson
-							-	33	00	1.501	0.000	'	.0	12	

S W S ₁ H P County Name S W S ₂ F H P County Name 10 00 0.440 0.123 0.1114 0 111 0 0.1114 0 1110 0.0150 0.1130 0.410 0.410 0.411 0 0.1100 0.0150 0.1130 0.413 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 1.111 1			K. Climat	ological	Dat	a by C	County				Meta	l Buildir	ig Sy	stem	s Manua	al
10 90 2.21 0.113 0.41 11 12 Advance 0.1500 85 0.244 0.244 0.6 0.212 Sam Joaquin 10 90 0.1630 0.53 0.440 0.141 0.113 0.440 0.141 0.113 0.440 0.141 0.113 0.440 0.141 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.113 0.111	S	w	S,	S ₁	11	12	ΤL	County Name	S	W	S,	S ₁	11	12	ΤL	County Name
6 00 0.156 0.034 0 11 12 Lasernic 01400 8.5 1331 0.463 4 6 172 Santa 10 80 0.000 0.141 7 10 12 Linesher 01400 85 1061 0.765 4 6 12 Santa																
110 90 1100 0.335 7 10 12 Lawrence Law 0 1.33 Law 6 1.23 Columbra 110 800 10.330 0.201 7 10 12 Link 1.2 Sam Halconne 110 900 1.233 0.148 8 11 12 Link 1.2 Sam Halconne 1.2 Sam Halconne <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>· · ·</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td></td<>									· · ·				4			
110 900 6530 1274 0.833 4 6 712 Sam Meteo 110 900 0.4300 111 12 Lincohn 01400 855 1200 0.754 6 6 712 Samia Chran 110 900 0.6400 0.161 0 10 12 Lincohn 02300 855 1500 0.650 4 6 112 Samia Chran 110 900 0.6400 0.101 0 10 12 Methon CS 857 0.0400 2.21 4 6 10 22 Methon CS 0.0400 0.0300 0.010 0.0100									0(1500)	85	1.331	0.493	4	6	8/12	
10 90 1.15 0.021 8 1.500 0.800 4 6 1.25 Starta Clara 10 80 0.233 0.144 8 11 12 Legan CS 857 0.000 600 0.800 4 6 11 25 857 0.003 2.21 4 6 16 Sampa 15 00 0.356 0.440 8 10 12 Missing CS 857 0.033 0.214 6 16 Sampa 10 00 0.358 0.403 8 11 12 Missing Missing <td>10</td> <td>90</td> <td>0.903</td> <td>0.260</td> <td>7</td> <td></td> <td>12</td> <td></td> <td>0(2400)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	10	90	0.903	0.260	7		12		0(2400)							
11 02 0.235 0.104 8 11 12 Londen 02400 85 15.00 0.600 4 6 12 Sanata 11 06 0.610 0.110 0 11 12 Londen CS 85" 0.70 0.721 4 6 10 Sistipup 15 00 0.780 0.771 10 12 Mileria CS 85" 0.700 0.771 4 6 8 Solano 10 00 3.228 1.255 7 0 12 Mersary 0.1600 85 0.707 4 6 8/17 Solano 10 00 0.328 0.12 8 11 12 Heverany 0.1600 85 0.707 0.207 6 6 8/17 Tintra 10 00 0.338 0.12 8 11 12 Perture 0.1000 85 0.430 0.228 4																
110 90 0 0.10 8 10 1.2 Lonke CS 85* 0.74 0.27* 4 6 16 Shara 10 60 0.240 0.10 8 11 12 Madison CS 85* 0.680 0.25* 4 6 16 Support 10 90 0.714 0.218 7 9 12 Mississipal 0.020 0.10 8 11 12 Mississipal 0.020 0.10 8 11 12 Mississipal 0.010 85 0.530 0.220 4 6 17 1.4																
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5 90 0.77.8 8 11 12 Misissign Miller 0(150) 85 1.500 0.800 4 8 Stainsing Miller 10 60 0.714 0.218 7 9 12 Mississign Miller 0(150) 85 0.820 0.227 4 6 B/17 Stainsing Miller 10 60 0.728 0.827 8 11 12 Newton CS 5 0.805 0.727 4 6 B/17 Tehran 10 90 0.318 0.121 8 11 12 Newton CS 8 0.022 4 8 H17 Tuikar 10 90 0.324 0.225 8 10 12 Printin C CN 8 4 8 H17 Tuikar Miller Niller	10	90	0.240	0.101	8	11	12	Madison	CS	85*	0.866	0.274	4	6	6/16	Sierra
10 90 3.228 1.256 7 9 1.2 Morrogenery 0.1500 85 0.530 0.229 4 6 8/12 Sancma 10 80 0.230 0.133 6 11 12 Morrogenery 0.1500 85 0.506 0.239 4 6 8/12 Sancma 10 80 0.238 0.138 6 11 12 Newton 0.55 0.506 0.232 4 6 8/12 Tualume 11 80 0.422 0.142 8 11 12 Perime 0.1500 85 0.430 0.221 4 8 6/12 Vatura 10 80 0.248 7 10 12 Perime 0.1400 8 8 0.12 Vatura Vatura 10 80 0.248 0.146 7 10 12 Randolph 25 807 0.241 4 A apanche																
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10 90 0.229 0.013 b 11 12 Nevador 0500 85 0.763 0.227 4 6 12 Statler 10 90 0.131 0.121 8 11 12 Nevador CS 85 0.284 0.237 4 6 811 Training 10 90 0.422 0.442 11 12 Perry CS 85 0.284 4 6 8112 Yukuma 10 90 0.422 0.44 0.223 8 11 12 Perry 0.1500 85 0.43 0.224 6 Alarnis 10 90 0.233 0.38 8 11 12 Parisite CS 90' 0.248 0.48 4 7 4 Adams 10 90 0.533 0.138 111 12 Statler CS 90' 0.238 4 7 4 Adams <td></td>																
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10 90 0.422 0.100 8 11 12 Outside 0(1500) 85 0.504 0.223 4 6 0/12 Tularie 10 90 0.744 0.233 0.113 1 10 90 0.744 0.233 0.113 4 6 0/12 Vicularie 10 90 0.744 0.238 0.111 12 Prineatt 0(1500) 85 0.433 0.217 4 6 0/12 Vicularie 10 90 0.762 0.223 7 10 12 Priaketn 25 90 0.266 0.044 7 4 Adams 10 90 0.533 0.518 11<12																
10 90 0.742 0.142 8 11 12 Perry CS 8.67 0.330 0.181 4 6 8/12 Vertura 10 90 0.233 0.068 8 11 12 Pairett 0.1500 85 0.483 0.321 4 6 8/12 Vertura 10 90 0.344 0.186 11 12 Pairett 0.1500 85 0.483 0.321 4 6 8/12 Vertura 10 90 0.762 0.228 7 10 12 Pairet 20 90° 0.443 14 6 6 Alams 10 90 0.534 0.556 7 10 12 Strands CS 90° 0.238 0.058 4 6 4/4 Adams 10 90 0.421 0.161 8 11 12 Strands CS 90° 0.238 0.053 4																
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10 90 3.144 0.884 7 10 12 Poinsett (11500) 65 0.493 0.224 4 6 12 Yuka 10 90 0.348 0.128 8 11 12 Pope COLORADO 10 90 0.348 0.128 7 10 12 Prairie C2 90 0.238 0.054 4 7 4 Admaphee 10 90 0.241 0.252 7 10 12 Stranda CS 90 0.238 0.68 4 6 A Admaphee 10 90 0.414 0.158 11 12 Sale 0.038 0.088 4 6 4 B Baca 10 90 0.414 0.158 11 12 Sale 10.100 90 0.118 0.018 4 6 A Baca 10 90 0.238 0.168 11																
10 90 0.286 0.188 8 11 12 Poke 10 90 0.742 0.228 7 10 12 Prairie 20 90 ⁻ 0.246 0.054 4 7 4 Adams 110 90 0.763 0.218 8 11 12 Prairie 20 90 ⁻ 0.246 0.054 4 7 4 Adams 110 90 0.245 0.118 8 11 12 Searcy CS 90 ⁻ 0.238 0.059 4 6 6 Bacia 110 90 0.241 0.051 8 11 12 Searcy CS 90 ⁻ 0.238 0.059 4 6 4 Bacia 110 90 0.633 0.203 11 12 Searcy CS 90 ⁻ 0.258 0.038 4 6 4 Chergene 110 90 0.843 0.81 8 11 12 Searcy CS 90 ⁻ 0.258 0.038																
10 90 0.345 0.128 8 11 12 Proje COLORADO 10 90 0.653 0.128 8 11 12 Prairie 20 90° 0.341 0.110 4 6 6 Alamosa 10 90 0.653 0.258 7 10 12 Randoph 20 90° 0.341 0.148 6 4.6 Arpahate 10 90 0.441 0.158 8 11 12 Saline 15 80 0.141 0.089 4 6 4.6 Arpahate 10 90 0.214 0.018 11 12 Salata 5 90 0.238 0.089 4 6 4.6 Charlene 10 90 0.415 0.018 8 11 12 Salata 10 0.028 0.030 6 4 6 Charlene 10 90 0.2328 0.086									0(1500)	85	0.493	0.221	4	6	12	Yuba
10 90 0.722 0.228 7 10 12 Prairie 20 90" 0.206 0.206 4 7 4 Adams 10 90 0.543 0.213 0.214 0.110 4 6 6 4.4. Arapahoe 10 90 0.415 0.142 0.54 7 10 12 St.Fracis CS 90" 0.228 0.088 4 6 4.4. Archuleta 10 90 0.415 0.142 0.818 11 12 Stanslam CS 90" 0.135 0.416 6 4 6 4.6 Charen 10 90 0.634 0.086 1.01 12 Stanslam CS 90" 0.256 0.664 6 Corelos 10 90 0.634 0.086 1.01 12 Washington CS 90" 0.307 0.083 4 6 Corelos 10																
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0 130 0.065 0.027 11 14 8 Martin 0 108 0.425 0.127 9 11 8 Effingham 0 140 0.051 0.019 12 14 8 Miami-Dade 10 90 0.320 0.100 7 10 8 Elbert 0 141 0.026 0.013 11 12 8 Monroe 5 97 0.269 0.096 8 11 8 Emanuel 0 109 0.167 0.068 10 11 8 Assau 0 104 0.291 0.100 8 11 8 Evans 0 124 0.103 0.051 10 12 12 Okaloosa 10(1800) 90 0.426 0.109 7 9 12 Fannin 0 116 0.075 0.028 10 12 8 Okaelosa 5 90 0.203 0.081 7 10 12 Fayette 0 106 0.096 <																
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	0	130			12	14	8	Palm Beach	10	90				9		

Metal Building Systems Manual

IX. Climatological Data by County

		. Climat	V		-	-					l Buildin				
S	W	Ss	S ₁	11	12	TL	County Name	S	W	S,	S ₁	11	12	TL	County Name
5 10(1800)	90	0.226 0.408	0.085 0.107	8 7	10	12 12	Fulton	05	96 91	0.230 0.181	0.087 0.076	8 8	11	8	Treutlen Troup
5	90 92	0.408	0.097	8	9 10	8	Gilmer Glascock	0	96	0.161	0.076	8	10 11	12 8/12	Turner
õ	119	0.210	0.079	9	11	8	Glynn	5	93	0.204	0.080	8	10	8/12	Twiggs
5	90	0.428	0.108	7	9	12	Gordon	10(1800)	90	0.383	0.105	7	9	12	Union
0	103	0.111	0.054	9	11	12	Grady	5	92	0.175	0.075	8	10	12	Upson
5	90	0.259	0.091	8	10	8	Greene	10(1800)	90	0.467	0.114	7	9	12	Walker
5 10(1800)	90 90	0.240 0.313	0.088 0.099	7 7	10 9	12 12	Gwinnett Habersham	5 0	90 98	0.236 0.173	0.088 0.071	7 9	10 11	12 8	Walton Ware
5	90	0.271	0.093	7	9	12	Hall	5	90	0.289	0.098	8	10	8	Warren
5	90	0.257	0.091	8	10	8	Hancock	5	93	0.248	0.091	8	10	8	Washington
5	90	0.265	0.090	8	10	12	Haralson	0	106	0.232	0.086	9	11	8	Wayne
5	92	0.164	0.072	8	11	12	Harris	5	96	0.136	0.065	8	11	12	Webster
10	90	0.323	0.101	7	9	8/12	Hart	0	96	0.204	0.080	8	11	8	Wheeler
5 5	90 90	0.200 0.207	0.079 0.082	8 8	10 10	12 12	Heard Henry	10(1800) 10(1800)	90 90	0.310 0.484	0.098 0.115	7 7	9 9	12 12	White Whitfield
5	93	0.172	0.073	8	11	8/12	Houston	0	95	0.166	0.072	8	11	8/12	Wilcox
0	96	0.152	0.067	8	11	8	Irwin	5	90	0.310	0.100	7	10	8	Wilkes
5	90	0.259	0.092	7	10	12	Jackson	5	93	0.220	0.084	8	10	8	Wilkinson
5	90	0.222	0.084	8	10	8/12	Jasper	0	97	0.133	0.062	8	11	12	Worth
0 5	97 94	0.201 0.284	0.079 0.099	8 8	11 10	8 8	Jeff Da∨is Jefferson								HAWAII
5	98	0.338	0.110	8	11	8	Jenkins	_	105	1.500	0.600	_	_	12	Hawaii
5	95	0.240	0.089	8	11	8	Johnson	_	105	0.614	0.178	_	_	4	Honolulu
5	90	0.217	0.082	8	10	8/12	Jones	- 1	105	0.244	0.068	—	—	4	Kauai
5	90	0.188	0.078	8	10	12	Lamar	-	105	0.970	0.248	—	—	6	Maui
0 5	97 95	0.138 0.217	0.062 0.084	9 8	11 11	8 8	Lanier								IDAHO
0	95 96	0.217	0.064	8	11	12	Laurens Lee	10(3200)	90	0.308	0.105	4	6	6	Ada
ŏ	114	0.291	0.099	9	11	8	Liberty	CS	90	0.474	0.142	4	6	6	Adams
5	90	0.343	0.105	7	10	8	Lincoln	CS	90	0.529	0.164	4	6	6	Bannock
0	109	0.256	0.091	9	11	8	Long	CS	90	1.098	0.417	4	6	6	Bear Lake
0	99	0.126	0.058	9	11	8/12	Lowndes	CS	90	0.363	0.107	4	6	6	Benewah
10(1800)	90 92	0.310 0.309	0.098 0.102	7 8	9 10	12 8	Lumpkin McDuffie	20(4500) CS	90 90	0.489 0.480	0.156 0.150	4 4	6 6	6 6	Bingham
5 0	^{9∠} 122	0.309	0.086	9	11	8	McIntosh	cs	90	0.480	0.130	4	6	6	Blaine Boise
5	93	0.153	0.069	8	11	12	Macon	cs	90	0.374	0.109	4	6	õ	Bonner
5	90	0.281	0.095	7	10	8/12	Madison	CS	90	0.530	0.169	4	6	6/8	Bonneville
5	93	0.146	0.068	8	11	12	Marion	CS	90	0.314	0.097	4	6	6	Boundary
5	90	0.178	0.076	8	10	12	Meriwether	CS	90	0.633	0.210	4	6	6	Butte
0 0	103 99	0.111 0.118	0.055 0.057	9 9	11 11	12 12	Miller Mitchell	CS 10(3200)	90 90	0.368 0.281	0.119 0.098	4 4	6 6	6 6	Camas Canyon
5	90	0.196	0.079	8	10	12	Monroe	CS	90	0.873	0.277	4	6	6	Caribou
Ō	97	0.219	0.084	8	11	8	Montgomery	10(3800)	90	0.252	0.096	4	6	6	Cassia
5	90	0.242	0.088	8	10	8/12	Morgan	CS	90*	0.464	0.168	4	6	6	Clark
10(1800)	90	0.467	0.113	7	9	12	Murray	CS	90*	0.302	0.093	4	6	6	Clearwater
5 5	93 90	0.149	0.069	8 8	11 10	12 12	Muscogee	CS 20(3200)	90 90	0.954	0.297	4 4	6 6	6 6	Custer
5	90 90	0.223 0.254	0.085 0.091	7	10	8/12	Newton Oconee	20(3200) CS	90 90	0.272 0.755	0.092 0.247	4	6	6	Elmore Franklin
5	90	0.279	0.095	7	10	8	Oglethorpe	cs	90*	0.492	0.171	4	6	6	Fremont
5	90	0.269	0.091	7	10	12	Paulding	cs	90	0.343	0.115	4	6	6	Gem
5	92	0.171	0.073	8	11	12	Peach	CS	90	0.290	0.095	4	6	6	Gooding
5	90	0.343	0.100	7	9	12	Pickens	CS	90*	0.303	0.095	4	6	6	Idaho
0 5	102 90	0.185 0.185	0.074 0.077	9 8	11 10	8 12	Pierce Pike	CS 10(3800)	90 90	0.483 0.257	0.162 0.089	4 4	6 6	6 6	Jefferson Jerome
5	90 90	0.325	0.077	7	10	12	Polk	CS	90 90	0.207	0.089	4	6	6	Kootenai
õ	93	0.173	0.074	8	11	8/12	Pulaski	cs	90	0.305	0.095	4	6	6	Latah
5	90	0.239	0.087	8	10	8/12	Putnam	10(5000)	90*	0.512	0.161	4	6	6	Lemhi
5	97	0.126	0.062	8	11	12	Quitman	CS	90	0.300	0.092	4	6	6	Lewis
10(1800)	90 07	0.360	0.104	7	9	12	Rabun	CS	90	0.268	0.093	4	6	6	Lincoln
0 5	97 94	0.124 0.379	0.061 0.115	8 8	11 10	12 8	Randolph Richmond	CS 20(4500)	90 90	0.469 0.233	0.163 0.094	4 4	6 6	6 6	Madison Minidoka
5	94 90	0.379	0.085	8	10	12	Rockdale	20(4500) CS	90 90	0.235	0.094	4	6	6	Nez Perce
5	94	0.145	0.068	8	11	12	Schley	CS	90	0.686	0.216	4	6	6	Oneida
5	101	0.400	0.122	8	11	8	Screven	CS	90	0.261	0.089	4	6	6/8	Owyhee
0	104	0.107	0.053	9	11	12	Seminole	CS	90	0.313	0.107	4	6	6	Payette
5	90	0.194	0.079	8	10	12	Spalding	10(3800)	90	0.367	0.128	4	6	6	Power
10(1800) 5	90 96	0.314 0.133	0.099 0.064	7 8	9 11	12 12	Stephens Stewart	CS CS	90 90	0.411 0.804	0.119 0.266	4 4	6 6	6 6/8	Shoshone Teton
0	90 95	0.133	0.064	8	11	12	Sumter	10(3800)	90 90	0.260	0.200	4	6	6	Twin Falls
5	92	0.161	0.072	8	11	12	Talbot	CS	90	0.494	0.152	4	6	6	Valley
5	90	0.280	0.095	8	10	8	Taliaferro	cs	90	0.333	0.111	4	6	6	Washington
0	103	0.257	0.092	8	11	8	Tattnall								-
5	93	0.161	0.071	8	11	12	Taylor		00	0.470	0.000	~	~	40	ILLINOIS
0	96 06	0.193	0.077	8	11	8	Telfair	20	90	0.179	0.082	6	9	12	Adams
0 0	96 102	0.128 0.113	0.062 0.054	8 9	11 11	12 12	Terrell Thomas	15 20	90 90	3.369 0.566	1.286 0.166	6 6	9 9	12 12	Alexander Bond
0	97	0.113	0.054	8	11	8/12	Tift	20	90 90	0.565	0.055	5	7	12	Boone
	99	0.245	0.090	8	11	8	Toombs	20	90	0.203	0.088	6	9	12	Brown
0	99														DIOMI

Metal Building Systems Manual

IX. Climatological Data by County

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S	W	S₅	S1	11	12	ΤL	County Name	S	W	S,	S1	11	12	ΤL	County Name
20	90	0.335	0.120	6	9	12	Calhoun	20	90	0.199	0.087	6	9	12	Schuyler
25	90 90	0.131 0.227	0.054 0.096	6 6	6 9	12 12	Carroll	20 20	90 90	0.258 0.394	0.104	6 6	8 8	12 12	Scott
20 20	90 90	0.227	0.096	6	9 8	12	Cass Champaign	20	90 90	0.394	0.131 0.069	6	8	12	Shelby Stark
20	90	0.338	0.120	6	8	12	Christian	30	90	0.133	0.053	6	8	12	Stephenson
20	90	0.372	0.123	6	8	12	Clark	20	90	0.183	0.081	6	8	12	Tazewell
20	90	0.657	0.181	6	8	12	Clay	15	90	1.500	0.532	6	9	12	Union
20	90	0.679	0.191	6	9	12	Clinton	20	90	0.226	0.092	6	8	12	Vermilion
20	90	0.363	0.123	6	8	12	Coles	20	90	0.670	0.184	6	8	12	Wabash
25 20	90 90	0.165 0.496	0.060 0.147	5 6	7 8	12 12	Cook Crawford	20 20	90 90	0.146 0.774	0.069 0.218	6 6	9 9	12 12	Warren Washington
20	90	0.439	0.147	6	8	12	Cumberland	20	90	0.798	0.218	6	8	12	Wayne
25	90	0.179	0.060	6	8	12	De Kalb	15	90	0.839	0.229	6	8	12	White
20	90	0.229	0.095	6	8	12	De Witt	25	90	0.144	0.059	6	8	12	Whiteside
20	90	0.292	0.108	6	8	12	Douglas	25	90	0.191	0.067	6	8	12	Will
25	90 90	0.186	0.062	5	8 8	12	Du Page	15	90	1.118	0.306	6 6	9	12	Williamson
20 20	90 90	0.318 0.751	0.112 0.203	6 6	8	12 12	Edgar Edwards	25 20	90 90	0.149 0.180	0.055 0.079	6	8 8	12 12	Winnebago Woodford
20	90	0.502	0.203	6	8	12	Effingham	20	90	0.100	0.075	0	0	12	vvoodiora
20	90	0.556	0.164	6	8	12	Fayette								INDIANA
20	90	0.199	0.084	6	8	12	Ford	20	90	0.184	0.064	5	7	12	Adams
15	90	0.942	0.254	6	9	12	Franklin	20	90	0.148	0.059	5	7	12	Allen
20	90	0.188	0.083	6	8	12	Fulton	20	90	0.209	0.090	5	8	12	Bartholomew
15 20	90 90	0.915 0.326	0.250	6 6	8 9	12 12	Gallatin Greene	20 20	90 90	0.173	0.076 0.068	6 5	8 7	12 12	Benton Blackford
20 25	90 90	0.326	0.118 0.069	6 6	9 8	12	Greene Grundy	20	90 90	0.164 0.190	0.068	5 5	8	12	Blackford Boone
15	90	0.899	0.242	6	8	12	Hamilton	20	90	0.237	0.097	6	8	12	Brown
20	90	0.158	0.074	6	9	12	Hancock	20	90	0.157	0.072	5	8	12	Carroll
15	90	1.036	0.281	6	8	12	Hardin	20	90	0.144	0.068	5	7	12	Cass
20	90	0.137	0.066	6	9	12	Henderson	15	90	0.244	0.102	6	8	12	Clark
20	90	0.146	0.065	6	8	12	Henry	20	90	0.300	0.107	6	8	12	Clay
20 15	90 90	0.176 1.067	0.076 0.293	6 6	8 9	12 12	Iroquois Jackson	20 15	90 90	0.173 0.328	0.077 0.121	5 6	8 8	12 12	Clinton Crawford
20	90	0.548	0.158	6	9	12	Jasper	20	90	0.320	0.121	6	8	12	Daviess
20	90	0.825	0.226	6	9	12	Jefferson	20	90	0.177	0.078	5	8	12	Dearborn
20	90	0.386	0.131	6	9	12	Jersey	20	90	0.182	0.082	5	8	12	Decatur
30	90	0.102	0.048	6	8	12	Jo Daviess	20	90	0.138	0.056	5	7	12	De Kalb
15	90	1.738	0.521	6	9	12	Johnson	20	90	0.165	0.070	5	7 8	12	Delaware
25 25	90 90	0.188 0.176	0.062 0.071	5 6	8 8	12 12	Kane Kankakee	15 25	90 90	0.423 0.121	0.140 0.055	6 5	8	12 12	Dubois Elkhart
25	90	0.194	0.066	6	8	12	Kendall	20	90	0.121	0.035	5	7	12	Fayette
20	90	0.151	0.070	6	8	12	Knox	15	90	0.251	0.103	6	8	12	Floyd
30	90	0.138	0.053	5	7	12	Lake	20	90	0.218	0.089	6	8	12	Fountain
25	90	0.181	0.069	6	8	12	La Salle	20	90	0.170	0.076	5	7	12	Franklin
20	90	0.572	0.162	6	8	12	Lawrence	20	90	0.133	0.063	5	7	12	Fulton
25 20	90 90	0.162 0.180	0.060 0.076	6 6	8 8	12 12	Lee Li∨ingston	15 20	90 90	0.621 0.151	0.177 0.067	6 5	8 7	12 12	Gibson Grant
20	90	0.224	0.078	6	8	12	Logan	20	90	0.348	0.007	6	8	12	Greene
20	90	0.170	0.077	õ	9	12	McDonough	20	90	0.170	0.077	5	8	12	Hamilton
25	90	0.154	0.055	5	7	12	McHenry	20	90	0.174	0.078	5	8	12	Hancock
20	90	0.197	0.085	6	8	12	McLean	15	90	0.288	0.112	6	8	12	Harrison
20	90	0.280	0.107	6	8	12	Macon	20	90	0.218	0.089	6	8	12	Hendricks
20	90 90	0.382	0.130	6 6	9 9	12	Macoupin	20	90 90	0.166	0.073	5 5	7 7	12	Henry
20 20	90 90	0.549 0.705	0.162 0.195	6	9 8	12 12	Madison Marion	20 20	90 90	0.152 0.145	0.071 0.063	5 5	7	12 12	Howard Huntington
20	90	0.168	0.072	6	8	12	Marshall	20	90	0.238	0.099	6	8	12	Jackson
20	90	0.197	0.086	6	8	12	Mason	20	90	0.155	0.070	5	8	12	Jasper
15	90	1.985	0.583	6	9	12	Massac	20	90	0.196	0.068	5	7	12	Jay
20	90	0.230	0.097	6	8	12	Menard	20	90	0.202	0.089	5	8	12	Jefferson
20 20	90 90	0.133 0.676	0.063 0.190	6 6	9 9	12 12	Mercer Monroe	20 20	90 90	0.201 0.204	0.089 0.088	5 5	8 8	12 12	Jennings Johnson
20	90	0.455	0.190	6	8	12	Montgomery	20	90	0.204	0.088	6	8	12	Knox
20	90	0.255	0.103	6	9	12	Morgan	20	90	0.128	0.059	5	7	12	Kosciusko
20	90	0.336	0.119	6	8	12	Moultrie	20	90	0.124	0.053	5	7	12	Lagrange
25	90	0.159	0.058	6	8	12	Ogle	25	90	0.158	0.064	5	7	12	Lake
20	90	0.176	0.078	6	8	12	Peoria	CS	90	0.130	0.058	5	7	12	La Porte
20 20	90 90	0.859 0.250	0.238 0.100	6 6	9 8	12 12	Perry Piatt	20 20	90 90	0.293 0.162	0.110 0.073	6 5	8 7	12 12	Lawrence
20 20	90 90	0.250	0.100	6	8	12	Platt Pike	20	90 90	0.162	0.073	5 5	8	12	Madison Marion
15	90	1.238	0.339	6	8	12	Pope	25	90	0.133	0.059	5	7	12	Marshall
15	90	3.390	1.311	6	9	12	Pulaski	20	90	0.362	0.126	6	8	12	Martin
20	90	0.169	0.069	6	8	12	Putnam	20	90	0.142	0.066	5	7	12	Miami
20	90	0.854	0.238	6	9	12	Randolph	20	90	0.273	0.104	6	8	12	Monroe
20	90	0.651	0.177	6	8	12	Richland Reak Johand	20	90	0.210	0.087	6	8	12	Montgomery
25 20	90 90	0.130 0.653	0.060 0.184	6 6	8 9	12 12	Rock Island St. Clair	20 20	90 90	0.238 0.169	0.096 0.074	6 6	8 8	12 12	Morgan Newton
15	90	1.014	0.272	6	8	12	Saline	20	90	0.129	0.074	5	7	12	Noble
20	90	0.268	0.105	6	8	12	Sangamon	20	90	0.183	0.080	5	8	12	Ohio
							-								

		K. Climat	ological	Dat	a by C	ounty				Meta	l Buildir	ıg Sy	/stem:	s Manu	al
s	W	S,	S ₁	11	12	TL	County Name	S	w	S₅	S ₁	11	12	TL	County Name
15	90	0.314	0.117	6	8	12	Orange	40	90	0.062	0.035	6	8	12	Howard
20	90	0.293	0.107	6	8	12	Owen	35	90	0.065	0.035	6	9	12	Humboldt
20	90	0.267	0.100	6	8	12	Parke	30	90	0.082	0.036	7	10	12	lda
15 15	90 90	0.406 0.508	0.142 0.154	6 6	8 8	12 12	Perry Pike	25 25	90 90	0.088 0.108	0.048 0.051	6 6	9 8	12 12	lowa Jackson
25	90	0.144	0.062	5	7	12	Porter	25	90	0.077	0.045	7	9	12	Jasper
15	90	0.781	0.220	6	8	12	Posey	20	90	0.107	0.058	6	9	12	Jefferson
20	90	0.138	0.065	5	7	12	Pulaski	25	90	0.100	0.052	6	9	12	Johnson
20	90	0.258	0.098	6	8	12	Putnam	25	90	0.093	0.048	6	8	12	Jones
20 20	90 90	0.187 0.184	0.070 0.083	5 5	7 8	12 12	Randolph	20 40	90 90	0.095 0.063	0.052 0.033	6 6	9 9	12 12	Keokuk Kossuth
20	90 90	0.164	0.083	5	8	12	Ripley Rush	20	90 90	0.063	0.033	6	9	12	Lee
ĉŝ	90	0.172	0.055	5	7	12	St Joseph	25	90	0.090	0.048	6	8	12	Linn
20	90	0.226	0.097	6	8	12	Scott	20	90	0.121	0.061	6	9	12	Louisa
20	90	0.186	0.083	5	8	12	Shelby	20	90	0.086	0.049	7	10	12	Lucas
15	90	0.489	0.159	6	8	12	Spencer	40	90	0.094	0.033	6	9	12	Lyon
25 20	90 90	0.133 0.131	0.062 0.053	5 5	7 7	12 12	Starke Steuben	20 20	90 90	0.079 0.088	0.044 0.050	7 7	10 9	12 12	Madison Mahaska
20	90 90	0.418	0.033	6	8	12	Sullivan	20	90 90	0.088	0.030	7	9	12	Marion
20	90	0.194	0.085	5	8	12	Switzerland	25	90	0.073	0.043	6	9	12	Marshall
20	90	0.175	0.078	6	8	12	Tippecanoe	25	90	0.119	0.043	7	10	12	Mills
20	90	0.160	0.073	5	7	12	Tipton	40	90	0.060	0.034	6	8	12	Mitchell
20	90	0.170	0.073	5	7	12	Union	25	90	0.100	0.037	7	10	12	Monona
15	90	0.656	0.191	6	8	12	Vanderburgh	20	90	0.092	0.052	7	9	12	Monroe
20 20	90 90	0.254 0.332	0.098 0.114	6 6	8 8	12 12	Vermillion Vigo	25 20	90 90	0.102 0.118	0.043 0.058	7 6	10 8	12 12	Montgomery Muscatine
20	90 90	0.332	0.065	5	7	12	Wabash	35	90 90	0.080	0.033	6	9	12	O'Brien
20	90	0.200	0.084	6	8	12	Warren	40	90	0.083	0.032	6	9	12	Osceola
15	90	0.552	0.169	6	8	12	Warrick	20	90	0.105	0.045	7	10	12	Page
20	90	0.263	0.105	6	8	12	Washington	35	90	0.067	0.033	6	9	12	Palo Alto
20	90	0.175	0.072	5	7	12	Wayne	35	90	0.093	0.034	7	10	12	Plymouth
20 20	90 90	0.169	0.065	5 5	7 8	12 12	Wells White	35 25	90 90	0.068	0.035 0.044	7 7	9 10	12 12	Pocahontas Polk
20	90 90	0.152 0.135	0.070 0.059	5	° 7	12	Whitley	25	90 90	0.075 0.117	0.044	7	10	12	Pottawattamie
20	00	0.100	0.000	5	'	12	voluticy	25	90	0.085	0.048	6	9	12	Poweshiek
							IOWA	20	90	0.091	0.048	7	10	12	Ringgold
25	90	0.082	0.043	7	10	12	Adair	30	90	0.073	0.036	7	10	12	Sac
20	90	0.092	0.044	7	10	12	Adams	25	90	0.130	0.060	6	8	12	Scott
35	90	0.068	0.037	6	8	12	Allamakee	25	90	0.090	0.039	7	10	12	Shelby
20 25	90 90	0.098 0.081	0.055 0.039	7 7	9 10	12 12	Appanoose Audubon	35 25	90 90	0.089 0.070	0.034 0.041	6 7	9 9	12 12	Sioux Story
25	90	0.081	0.035	6	9	12	Benton	25	90	0.070	0.044	6	9	12	Tama
30	90	0.071	0.041	6	9	12	Black Hawk	20	90	0.099	0.047	7	10	12	Taylor
25	90	0.069	0.039	7	10	12	Boone	20	90	0.086	0.045	7	10	12	Union
30	90	0.067	0.039	6	9	12	Bremer	20	90	0.116	0.062	6	9	12	Van Buren
30 35	90	0.076	0.043	6 7	8 10	12 12	Buchanan Buona Vista	20 20	90 90	0.099	0.055	7 7	9 10	12	Wapello
35 35	90 90	0.075 0.065	0.035 0.038	6	9	12	Buena Vista Butler	20	90 90	0.079 0.105	0.046 0.056	6	9	12 12	Warren Washington
30	90	0.070	0.036	7	10	12	Calhoun	20	90	0.092	0.052	7	10	12	Wayne
25	90	0.076	0.037	7	10	12	Carroll	30	90	0.066	0.036	7	9	12	Webster
25	90	0.088	0.041	7	10	12	Cass	40	90	0.060	0.033	6	9	12	Winnebago
25	90	0.106	0.053	6	8	12	Cedar	35	90	0.065	0.036	6	8	12	Winneshiek
40 35	90 90	0.060 0.080	0.034 0.034	6 7	9 10	12 12	Cerro Gordo Cherokee	30 40	90 90	0.101 0.059	0.036 0.033	7 6	10 9	12 12	Woodbury Worth
35	90 90	0.064	0.034	6	8	12	Chickasaw	35	90 90	0.063	0.035	6	9	12	Wright
20	90	0.084	0.047	7	10	12	Clarke		00	0.000	0.000	Ŭ	Ũ	12	vingin
35	90	0.072	0.033	6	9	12	Clay								KANSAS
30	90	0.075	0.041	6	8	12	Clayton	20	90	0.117	0.059	8	11	12	Allen
25	90	0.134	0.057	6	8	12	Clinton	20	90	0.120	0.058	8	10	12	Anderson
25 25	90 90	0.084 0.075	0.037 0.042	7 7	10 10	12 12	Crawford Dallas	20 15	90 90	0.130 0.137	0.053 0.048	7 7	10 11	12 12	Atchison Barber
20	90 90	0.075	0.042	7	9	12	Davis	20	90 90	0.137	0.048	7	10	12	Barton
20	90	0.089	0.050	7	10	12	Decatur	20	90	0.128	0.066	8	11	12	Bourbon
30	90	0.081	0.044	6	8	12	Delaware	20	90	0.144	0.050	7	10	12	Brown
20	90	0.137	0.067	6	9	12	Des Moines	15	90	0.128	0.052	8	11	12	Butler
40	90	0.071	0.032	6	9	12	Dickinson	20	90	0.132	0.051	8	11	12	Chase
30 40	90 90	0.094 0.068	0.046 0.032	6 6	8 9	12 12	Dubuque Emmet	15 15	90 90	0.124 0.137	0.058 0.070	8 8	11 11	12 12	Chautauqua Cherokee
30	90 90	0.069	0.032	6	8	12	Fayette	20	90	0.093	0.035	6	9	4	Chevenne
35	90	0.062	0.036	6	9	12	Floyd	15	90	0.122	0.044	7	10	12	Clark
35	90	0.063	0.037	6	9	12	Franklin	20	90	0.167	0.048	7	10	12	Clay
25	90	0.124	0.045	7	10	12	Fremont	25	90	0.130	0.043	7	10	12	Cloud
25	90	0.071	0.039	7	10	12	Greene	20	90	0.118	0.055	8	10	12	Coffey
30	90	0.069	0.041	6	9 10	12	Grundy	15	90	0.124	0.045	7	10	12	Comanche
25 30	90 90	0.077 0.065	0.040 0.037	7 6	10 9	12 12	Guthrie Hamilton	15 15	90 90	0.133 0.130	0.054 0.067	8 8	11 11	12 12	Cowley Crawford
30 40	90 90	0.003	0.037	6	9	12	Hancock	25	90 90	0.102	0.036	6	9	4/12	Decatur
40		0.067	0.040	6	9	12	Hardin	20	90	0.147	0.048	7	10	12	Dickinson
30	90	0.007	0.040	<u> </u>											
	90 90 90	0.102 0.118	0.039	7 6	10 9	12 12	Harrison Henry	20 20	90 90	0.125 0.133	0.051 0.055	7 7	10 10	12 12	Doniphan Douglas

IX. Climatological Data by County

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<u>S</u>	W	S₅	S1	11	12	TL	County Name	S	W	S _s	S1	11	12		County Name
15 15	90 90	0.107 0.119	0.042 0.056	7 8	10 11	12 12	Edwards Elk	20 15	90 90	0.100 0.116	0.037 0.058	6 8	9 11	6/12 12	Wichita Wilson
25	90	0.129	0.030	7	10	12	Ellis	20	90	0.128	0.058	8	11	12	Woodson
20	90	0.113	0.043	7	10	12	Ellsworth	20	90	0.128	0.058	7	10	12	Wyandotte
15	90	0.100	0.039	7	9	12	Finney								,
15	90	0.103	0.041	7	10	12	Ford								KENTUCKY
20	90	0.125	0.056	7	10	12	Franklin	15(2600)	90	0.232	0.101	6	8	12	Adair
20	90	0.182	0.051	7	10	12	Geary	15	90	0.298	0.121	6	8	12	Allen
20	90	0.100	0.038	7	9 10	4/12	Gove	15	90	0.217	0.091	6	8	12	Anderson
25 15	90 90	0.122 0.108	0.039 0.039	7 6	9	12 6/12	Graham Grant	15 15	90 90	3.268 0.272	1.026 0.113	6 6	8 8	12 12	Ballard Barren
15	90	0.100	0.039	7	10	12	Gray	15	90	0.254	0.083	5	8	12	Bath
10(5000)	90	0.106	0.037	6	9	6	Greeley	15(2600)	90	0.374	0.102	6	8	12	Bell
20	90	0.118	0.054	8	11	12	Greenwood	20	90	0.179	0.078	5	7	12	Boone
10(5000)	90	0.113	0.038	6	9	6	Hamilton	15	90	0.240	0.085	5	8	12	Bourbon
15	90	0.147	0.051	8	11	12	Harper	20	90	0.194	0.071	5	8	12	Boyd
20	90	0.132	0.049	7	11	12	Harvey	15	90	0.219	0.092	6	8	12	Boyle
15	90	0.105	0.040	7	9	12	Haskell	20	90	0.213	0.078	5	8	12	Bracken
20 20	90 90	0.102	0.040 0.053	7 7	10 10	12 12	Hodgeman	15(2600)	90 90	0.247 0.350	0.085 0.130	6 6	8 8	12 12	Breathitt
20	90 90	0.165 0.139	0.053	7	10	12	Jackson Jefferson	15 15	90 90	0.350	0.130	6	8	12	Breckinridge Bullitt
25	90	0.139	0.034	7	10	12	Jewell	15	90	0.249	0.104	6	8	12	Butler
20	90	0.112	0.058	7	10	12	Johnson	15	90	0.837	0.238	6	8	12	Caldwell
15	90	0.105	0.039	6	9	6/12	Kearny	15	90	1.001	0.270	õ	8	12	Calloway
15	90	0.134	0.048	7	11	12	Kingman	20	90	0.185	0.076	5	7	12	Campbell
15	90	0.114	0.043	7	10	12	Kiowa	15	90	2.343	0.605	6	8	12	Carlisle
15	90	0.131	0.067	8	11	12	Labette	20	90	0.199	0.087	5	8	12	Carroll
20	90	0.098	0.038	7	9	12	Lane	20	90	0.208	0.074	5	8	12	Carter
20	90	0.129	0.055	7	10	12	Leavenworth	15(2600)	90	0.223	0.096	6	8	12	Casey
25 20	90	0.113	0.042	7	10	12	Lincoln	15	90	0.637	0.197	6	8	12	Christian
20	90 90	0.123 0.095	0.062 0.036	8 6	10 9	12 4/12	Linn Logan	15 15(2600)	90 90	0.244 0.282	0.086 0.093	5 6	8 8	12 12	Clark Clay
20	90	0.095	0.053	8	10	12	Lyon	15(2600)	90	0.282	0.093	6	8	12	Clinton
20	90	0.125	0.033	7	11	12	McPherson	15(2000)	90	0.932	0.257	6	8	12	Crittenden
20	90	0.131	0.049	7	11	12	Marion	15(2600)	90	0.242	0.103	6	8	12	Cumberland
20	90	0.181	0.049	7	10	12	Marshall	15	90	0.513	0.165	6	8	12	Daviess
15	90	0.112	0.042	7	10	12	Meade	15	90	0.317	0.125	6	8	12	Edmonson
20	90	0.124	0.059	7	10	12	Miami	15	90	0.224	0.078	5	8	12	Elliott
25	90	0.114	0.041	7	10	12	Mitchell	15(2600)	90	0.243	0.087	6	8	12	Estill
15	90	0.122	0.061	8	11	12	Montgomery	15	90	0.229	0.088	5	8	12	Fayette
20 15	90 90	0.154 0.120	0.052 0.039	7 6	10 9	12 6	Morris Morton	15 15(2600)	90 90	0.242 0.232	0.080 0.080	5 6	8 8	12 12	Fleming
20	90 90	0.120	0.039	7	9 10	12	Nemaha	15(2600)	90 90	0.232	0.080	5	8 8	12	Floyd Franklin
15	90	0.173	0.062	8	11	12	Neosho	15	90	1.668	0.600	7	8	12	Fulton
20	90	0.107	0.040	7	10	12	Ness	20	90	0.190	0.082	5	8	12	Gallatin
25	90	0.113	0.038	7	10	12	Norton	15(2600)	90	0.223	0.091	6	8	12	Garrard
20	90	0.131	0.054	7	10	12	Osage	20	90	0.202	0.081	5	8	12	Grant
25	90	0.110	0.040	7	10	12	Osborne	15	90	1.443	0.385	6	8	12	Graves
20	90	0.125	0.044	7	10	12	Ottawa	15	90	0.324	0.125	6	8	12	Grayson
20	90	0.110	0.042	7	10	12	Pawnee	15	90	0.239	0.104	6	8	12	Green
25 20	90 90	0.111 0.211	0.038 0.053	7 7	10 10	12 12	Phillips	20 15	90 90	0.194 0.409	0.071	5 6	8 8	12 12	Greenup Hancock
20 15	90 90	0.211	0.053	7	10	12	Pottawatomie Pratt	15	90 90	0.409	0.143 0.110	6	8	12	Hardin
25	90	0.093	0.043	6	9	4	Rawlins	15(2600)	90	0.205	0.099	6	8	12	Harlan
15	90	0.035	0.034	7	11	12	Reno	15(2000)	90	0.230	0.083	5	8	12	Harrison
25	90	0.132	0.043	7	10	12	Republic	15	90	0.270	0.113	6	8	12	Hart
20	90	0.117	0.044	7	10	12	Rice	15	90	0.675	0.198	6	8	12	Henderson
20	90	0.206	0.053	7	10	12	Riley	15	90	0.209	0.090	5	8	12	Henry
25	90	0.120	0.040	7	10	12	Rooks	15	90	1.500	0.577	6	8	12	Hickman
20	90	0.117	0.041	7	10	12	Rush	15	90	0.665	0.202	6	8	12	Hopkins
25 20	90 90	0.116 0.126	0.041 0.045	7 7	10 10	12 12	Russell Saline	15(2600) 15	90 90	0.244 0.247	0.089 0.102	6 6	8 8	12 12	Jackson Jefferson
20	90 90	0.126	0.045	7	9	6/12	Scott	15	90 90	0.247	0.102	6	8	12	Jessamine
15	90	0.037	0.058	8	11	12	Sedgwick	15(2600)	90	0.225	0.089	6	8	12	Johnson
15	90	0.115	0.041	7	9	12	Seward	20	90	0.184	0.077	5	7	12	Kenton
20	90	0.154	0.054	7	10	12	Shawnee	20(2500)	90	0.264	0.086	6	8	12	Knott
25	90	0.102	0.037	6	9	4/12	Sheridan	15(2600)	90	0.330	0.099	6	8	12	Knox
20	90	0.097	0.036	6	9	4	Sherman	Ì15	90	0.255	0.108	6	8	12	Larue
25	90	0.106	0.039	7	10	12	Smith	15(2600)	90	0.266	0.093	6	8	12	Laurel
15	90	0.115	0.044	7	10	12	Stafford	15	90	0.205	0.074	5	8	12	Lawrence
15	90	0.114	0.038	6	9	6	Stanton	15(2600)	90	0.246	0.087	6	8	12	Lee
15	90	0.112	0.040	6	9	6/12	Stevens	15(2600)	90	0.291	0.091	6	8	12	Leslie
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	-				-				1 20	115	0.109	0.043	1	IU	8	vvorcester

	M	letal Buil	ding Sy:	stems	s Mar	nual				IX. Clin	natologi	cal E)ata b	y Count	<u>y_</u>
s	w	S₅	S ₁	11	12	T∟	County Name	S	w	S,	S ₁	11	12	ΤL	County Name
		-,	-1					40	90	0.080	0.090	5	7	12	Muskegon
							MASSACHUSETS	40	90	0.073	0.037	5	7	12	Newaygo
25	115	0.188	0.052	5	7	6	Barnstable	25	90	0.109	0.043	5	7	12	Oakland
50(900)	90*	0.219	0.067	5	7	6	Berkshire	CS	90	0.071	0.036	5	7	12	Oceana
30 25	110 118	0.238	0.061	5 5	7 7	6 6	Bristol	40 70	90 90	0.066	0.033 0.019	4 4	6 6	12 4	Ogemaw
∠5 50(500)	104	0.168 0.310	0.049 0.071	5 5	7	6	Dukes Essex	70 50	90 90	0.068 0.067	0.019	4	6	4 12	Ontonagon Osceola
50(900)	90*	0.225	0.068	5	7	6	Franklin	50	90	0.065	0.032	4	6	12	Oscoda
35	95	0.229	0.065	5	7	6	Hampden	50	90	0.060	0.030	4	6	12	Otsego
40	93*	0.224	0.066	5	7	6	Hampshire	40	90	0.085	0.041	5	7	12	Ottawa
40	100	0.280	0.068	5	7	6	Middlesex	50	90	0.068	0.028	4	6	4/12	Presque Isle
25	118	0.138	0.045	5	7 7	6 6	Nantucket	50 35	90 90	0.063	0.032	4 5	6 6	12	Roscommon
40 30	105 112	0.261 0.234	0.066 0.059	5 5	7	6	Norfolk Plymouth	25	90	0.080 0.105	0.037 0.041	4	6	12 12	Saginaw St. Clair
40	105	0.280	0.068	5		ő	Suffolk	25	90	0.118	0.051	5	7	12	St. Joseph
50(900)	97	0.237	0.066	5	7 7	6	Worcester	30	90	0.089	0.038	4	6	12	Sanilac
								70	90	0.056	0.023	4	6	4/12	Schoolcraft
	~~	0.070	0.000		~		MICHIGAN	30	90	0.093	0.040	5	7	12	Shiawassee
50 70	90 90	0.073 0.056	0.033 0.021	4 4	6 6	12 4/12	Alcona	30 CS	90 90	0.082 0.108	0.037 0.049	4 5	6 7	12 12	Tuscola Van Buren
CS	90 90	0.000	0.021	5	7	12	Alger Allegan	20	90	0.108	0.049	5	7	12	Washtenaw
50	90	0.073	0.031	4	6	4/12	Alpena	20	90	0.122	0.045	5	7	12	Wayne
60	90	0.058	0.030	4	6	12	Antrim	60	90	0.063	0.033	4	6	12	Wexford
40	90	0.070	0.034	4	6	12	Arenac								
70	90	0.067	0.019	4	6	4	Baraga					_	_		MINNESOTA
35	90	0.101	0.044	5	7	12	Barry	60	90	0.069	0.019	5	7	4	Aitkin
35 CS	90 90	0.077 0.059	0.036 0.031	4 4	6 6	12 12	Bay Benzie	50 60	90 90	0.063 0.086	0.026 0.021	6 5	8 7	12 4	Anoka Becker
CS	90	0.112	0.051	5	7	12	Berrien	70	90	0.065	0.021	4	6	4	Beltrami
25	90	0.124	0.050	5	7	12	Branch	50	90	0.074	0.021	6	8	4	Benton
25	90	0.115	0.047	5	7	12	Calhoun	50	90	0.112	0.027	6	8	4	Big Stone
CS	90	0.114	0.052	5	7	12	Cass	50	90	0.062	0.029	6	9	12	Blue Earth
60 60	90	0.057	0.029	4	6	12	Charlevoix	50	90	0.068	0.029	6	9	12	Brown
60 70	90 90	0.061 0.063	0.025 0.025	4 4	6 6	4/12 4	Cheboygan Chippewa	60 50	90 90	0.056 0.063	0.018 0.028	5 6	7 8	4 12	Carlton Carver
40	90	0.066	0.023	4	6	12	Clare	60	90	0.000	0.019	5	7	4	Cass
30	90	0.093	0.041	5	7	12	Clinton	50	90	0.096	0.025	6	8	4	Chippewa
50	90	0.061	0.031	4	6	12	Crawford	50	90	0.058	0.025	6	7	12	Chisago
60	90	0.058	0.026	4	6	4/12	Delta	60	90	0.075	0.021	5	7	4	Clay
60 30	90 90	0.058 0.107	0.026 0.044	4 5	6 7	4/12 12	Dickinson Eaton	70 60	90 90	0.065 0.059	0.018 0.016	4 4	7 6	4 4	Clearwater Cook
CS	90 90	0.058	0.044	4	6	12	Emmet	50	90	0.039	0.010	6	9	12	Cottonwood
30	90	0.093	0.040	5	7	12	Genesee	60	90	0.081	0.021	5	7	4	Crow Wing
40	90	0.068	0.034	4	6	12	Gladwin	50	90	0.057	0.028	6	8	12	Dakota
60	90	0.060	0.018	4	6	4/12	Gogebic	50	90	0.057	0.030	6	8	12	Dodge
60	90	0.058	0.030	4	6	12	Grand Traverse	50	90	0.110	0.024	5	8	4	Douglas
35 20	90 90	0.083 0.127	0.038 0.050	5 5	7 7	12 12	Gratiot Hillsdale	50 40	90 90	0.062 0.060	0.031 0.033	6 6	9 8	12 12	Faribault Fillmore
70	90	0.072	0.019	4	6	4	Houghton	50	90	0.059	0.032	6	9	12	Freeborn
35	90	0.080	0.036	4	6	12	Huron	50	90	0.056	0.029	6	8	12	Goodhue
25	90	0.107	0.044	5	7	12	Ingham	50	90	0.112	0.025	5	8	4	Grant
35	90	0.091	0.041	5	7	12	lonia	50	90	0.061	0.027	6	8	12	Hennepin
40	90	0.071	0.034	4	6	12	losco	40	90	0.063	0.034	6	8	12	Houston
60 40	90 90	0.059 0.074	0.024 0.036	4 5	6 6	4/12 12	Iron Isabella	60 50	90 90	0.081 0.063	0.020 0.022	5 6	7 7	4 12	Hubbard Isanti
25	90 90	0.074	0.030	5	7	12	Jackson	70	90	0.061	0.022	4	6	4	Itasca
30	90	0.109	0.048	5	7	12	Kalamazoo	40	90	0.070	0.031	6	9	12	Jackson
60	90	0.059	0.031	4	6	12	Kalkaska	60	90	0.064	0.020	5	7	4	Kanabec
35	90	0.088	0.042	5	7	12	Kent	50	90	0.090	0.025	6	8	4/12	Kandiyohi
90	90	0.070	0.019	4	6	12	Keweenaw	60	90	0.045	0.015	4	6	4	Kittson
50 25	90 90	0.067 0.095	0.035 0.040	5 4	7 6	12 12	Lake Lapeer	70 50	90 90	0.047 0.102	0.014 0.026	4 6	6 8	4 4	Koochiching Lac qui Parle
ČS	90	0.057	0.040	4	6	12	Leelanau	60	90	0.055	0.020	4	6	4	Lake
20	90	0.138	0.049	5	7	12	Lenawee			0.000	0.017				Lake of the
25	90	0.106	0.043	5	7	12	Livingston	60	90	0.047	0.014	4	6	4	Woods
70	90	0.056	0.022	4	6	4	Luce	50	90	0.061	0.029	6	8	12	Le Sueur
60	90	0.059	0.025	4	6	4/12	Mackinac	50	90	0.096	0.028	6	9	4/12	Lincoln
25 60	90 90	0.112	0.043	4	6 6	12	Macomb Manistee	50 50	90	0.088	0.029	6 6	9	4/12	Lyon Mal and
60 70	90 90	0.063 0.059	0.033 0.020	4 4	6 6	12 4/12	Marquette	50 60	90 90	0.069 0.069	0.028 0.019	6 5	8 7	12 4	McLeod Mahnomen
CS	90 90	0.059	0.020	4 5	7	4/12	Mason	60 60	90 90	0.069	0.019	5 4	6	4	Marshall
40	90	0.070	0.036	5	7	12	Mecosta	50	90	0.064	0.031	6	9	12	Martin
60	90	0.058	0.029	4	6	12	Menominee	50	90	0.080	0.026	6	8	4/12	Meeker
35	90	0.075	0.036	4	6	12	Midland	60	90	0.070	0.020	5	7	4/12	Mille Lacs
50	90	0.062	0.032	4	6	12	Missaukee	60	90	0.087	0.022	5	8	4	Morrison
20 35	90 90	0.146 0.081	0.049 0.038	5 5	7 7	12 12	Monroe Montcalm	50 50	90 90	0.058 0.085	0.032 0.031	6 6	8 9	12 12	Mower Murray
50	90 90	0.061	0.038	4	6	12	Montmorency	50	90	0.063	0.031	6	8	12	Nicollet
					-		44					-	-		

	D	. Climat	ological	Dat	a by C	County				Meta	l Buildir	ıg Sy	/stems	s Manu	al
s	w	S₅	S ₁	11	12	T∟	County Name	S	w	S,	S ₁	11	12	ΤL	County Name
40	90	0.080	0.031	6	9 7	12	Nobles	0	96	0.146	0.069	9	11	12	Lincoln
60	90	0.067	0.019	5		4	Norman	10	90	0.262	0.105	7	10	12	Lowndes
50	90	0.057	0.031	6	8	12	Olmsted	5	90	0.214	0.093	8	11	12	Madison
60 70	90 90	0.101 0.054	0.024 0.017	5 4	8 7	4 4	Otter Tail Pennington	0 10	105 90	0.135 0.671	0.064 0.206	9 7	11 10	12 12	Marion Marshall
60	90	0.054	0.017	5	7	4	Pine	10	90	0.297	0.200	7	10	12	Monroe
50	90	0.100	0.032	6	9	12	Pipestone	10	90	0.321	0.124	8	10	12	Montgomery
60	90	0.058	0.018	4	7	4	Polk	5	93	0.211	0.092	8	11	12	Neshoba
50	90	0.108	0.025	6	8	4	Pope	5	96	0.193	0.084	8	11	12	Newton
50	90	0.059	0.027	6	8	12	Ramsey	5	92	0.231	0.097	8	10	12	Noxubee
60 50	90 90	0.057 0.079	0.017 0.029	4 6	7 9	4 12	Red Lake Redwood	10 10	90 90	0.266 0.642	0.109 0.200	7 7	10 10	12 12	Oktibbeha Panola
50	90 90	0.079	0.029	6	8	12	Renville	5	115	0.042	0.200	10	12	12	Pearl River
50	90	0.058	0.029	6	8	12	Rice	5	112	0.137	0.062	9	11	12	Perry
40	90	0.096	0.032	6	9	12	Rock	0	101	0.131	0.062	9	11	12	Pike
60	90	0.045	0.014	4	6	4	Roseau	10	90	0.408	0.147	7	10	12	Pontotoc
60	90	0.056	0.017	4	6	4	St. Louis	10	90	0.439	0.154	7	9	12	Prentiss
50 50	90 90	0.060 0.066	0.028 0.025	6 6	8 8	12 12	Scott	10 5	90 94	0.603 0.188	0.191 0.083	7 8	10 11	12 12	Quitman
50	90 90	0.067	0.025	6	8	12	Sherburne Sibley	5	94 94	0.188	0.083	8	11	12	Rankin Scott
50	90	0.078	0.022	ĕ	8	4	Stearns	5	90	0.253	0.104	8	11	12	Sharkey
50	90	0.058	0.030	6	8	12	Steele	5	96	0.166	0.076	9	11	12	Simpson
50	90	0.117	0.026	6	8	4	Stevens	5	97	0.171	0.077	9	11	12	Smith
50	90	0.105	0.025	6	8	4	Swift	5	120	0.130	0.058	10	12	12	Stone
60	90	0.100	0.023	5	8	4	Todd	10	90	0.351	0.129	8	10	12	Sunflower
50 50	90 90	0.115 0.056	0.026 0.030	5 6	8 8	4 12	Traverse	10 10	90 90	0.492 0.730	0.165	7 7	10 10	12 12	Tallahatchie
50 60	90 90	0.058	0.030	5	7	4	Wabasha Wadena	10	90 90	0.730	0.221 0.175	7	9	12	Tate Tippah
50	90	0.059	0.022	6	9	12	Waseca	10	90	0.417	0.150	7	9	12	Tishomingo
50	90	0.058	0.027	6	8	12	Washington	10	90	0.851	0.248	7	10	12	Tunica
50	90	0.067	0.030	6	9	12	Watonwan	10	90	0.469	0.161	7	10	12	Union
50	90	0.096	0.024	5	8	4	Wilkin	0	104	0.131	0.062	9	11	12	Walthall
50	90	0.059	0.032	6	8	12	Winona	5	90	0.197	0.086	8	11	12	Warren
50	90	0.069	0.026	6	8	12	Wright Yellow	10 5	90 107	0.339 0.163	0.126 0.069	8 9	11 11	12 12	Washington Wayne
50	90	0.090	0.026	6	9	4/12	Medicine	10	90	0.315	0.009	7	10	12	Webster
							Weatonie	0	97	0.128	0.061	9	11	12	Wilkinson
							MISSISSIPPI	5	92	0.239	0.102	8	10	12	Winston
5	93	0.141	0.067	9	11	12	Adams	10	90	0.480	0.163	7	10	12	Yalobusha
10	90	0.502	0.170	7	9	12	Alcorn	5	90	0.244	0.102	8	11	12	Yazoo
0 5	98 90	0.130 0.247	0.062 0.104	9 8	11 10	12 12	Amite Attala								MISSOURI
10	90	0.621	0.195	7	9	12	Benton	20	90	0.120	0.064	7	10	12	Adair
10	90	0.453	0.154	8	10	12	Bolivar	20	90	0.115	0.051	7	10	12	Andrew
10	90	0.387	0.142	7	10	12	Calhoun	20	90	0.128	0.047	7	10	12	Atchison
10	90	0.338	0.128	8	10	12	Carroll	20	90	0.207	0.091	7	9	12	Audrain
10 10	90 90	0.337	0.129	7 7	10	12	Chickasaw Choctaw	15	90 90	0.204	0.091 0.074	8	11 11	12	Barry
5	90 91	0.263 0.166	0.109 0.076	9	10 11	12 12	Claiborne	15 20	90 90	0.148 0.131	0.074	8 7	10	12 12	Barton Bates
5	103	0.184	0.076	9	11	12	Clarke	20	90	0.168	0.079	7	10	12	Benton
10	90	0.278	0.111	7	10	12	Clay	15	90	1.104	0.306	7	9	12	Bollinger
10	90	0.587	0.187	7	10	12	Coahoma	20	90	0.195	0.087	7	10	12	Boone
5	94	0.161	0.075	9	11	12	Copiah	20	90	0.119	0.052	7	10	12	Buchanan
5 10	101 90	0.150 0.875	0.070 0.252	9 7	11 10	12 12	Covington	15 20	90 90	1.120 0.114	0.309 0.058	7 7	9 10	12 12	Butler
5	90 109	0.875	0.252	9	10	12	De Soto Forrest	20	90 90	0.114	0.058	7	10	12	Caldwell Callaway
õ	95	0.140	0.067	9	11	12	Franklin	20	90	0.224	0.097	7	10	12	Camden
0	123	0.127	0.057	10	12	12	George	15	90	1.420	0.385	6	9	12	Cape
5	115	0.134	0.060	9	11	12	Greene								Girardeau
10	90	0.393	0.143	7	10	12	Grenada	20	90	0.127	0.065	7	10	12	Carroll
5 5	125	0.118	0.051	10	12	12	Hancock	15	90	0.714	0.210	7	10	12	Carter
5 5	130 90	0.119 0.191	0.052 0.084	10 8	12 11	12 12	Harrison Hinds	20 20	90 90	0.128 0.163	0.063 0.078	7 7	10 10	12 12	Cass Cedar
5	90 90	0.191	0.064	8	10	12	Holmes	20	90	0.139	0.078	7	10	12	Clear
5	90	0.296	0.115	8	11	12	Humphreys	15	90	0.241	0.102	8	10	12	Christian
5	90	0.250	0.103	8	11	12	Issaquena	20	90	0.137	0.069	6	9	12	Clark
10	90	0.341	0.130	7	10	12	ltawamba	20	90	0.125	0.059	7	10	12	Clay
0	135	0.111	0.050	10	12	12	Jackson	20	90	0.118	0.056	7	10	12	Clinton
5 5	100 93	0.178 0.150	0.076 0.071	9 9	11 11	12 12	Jasper Jefferson	20 20	90 90	0.232 0.170	0.099 0.080	7 7	10 10	12 12	Cole Cooper
5	100	0.150	0.071	9	11	12	Jefferson Davis	20	90 90	0.170	0.080	7	9	12	Crawford
5	105	0.147	0.009	9	11	12	Jones	20	90	0.427	0.082	8	11	12	Dade
5	95	0.210	0.089	8	11	12	Kemper	20	90	0.211	0.093	7	10	12	Dallas
10	90	0.533	0.176	7	10	12	Lafayette	20	90	0.106	0.055	7	10	12	Daviess
5	107	0.135	0.062	9	11	12	Lamar	20	90	0.109	0.053	7	10	12	Dekalb
5	98 07	0.194	0.081	8	11	12	Lauderdale	20	90	0.437	0.149	7	10	12	Dent
0 5	97 92	0.145 0.213	0.069 0.094	9 8	11 11	12 12	Lawrence Leake	15 10	90 90	0.305 1.671	0.119 0.600	7 7	10 9	12 12	Douglas Dunklin
10	90	0.213	0.034	7	10	12	Lee	20	90	0.425	0.000	7	9	12	Franklin
10	90	0.352	0.131	8	10	12	Leflore	20	90	0.299	0.114	7	9	12	Gasconade
10	90	0.352	0.131	8	ΠŪ	12	Letiore	 20	90	0.299	U.114	/	Э	12	Gasconade

Metal Building Systems Manual

IX. Climatological Data by County

S W S. S. H I2 T. County Marror S W S. S. I1 I2 County Marror 20 60 0.101 0.056 7 10 12 Gentry 22(400) 60 0.023 4 6 4 Bialne 20 60 0.068 0.027 7 10 12 Henry 8 0.00 0.023 0.277 4 6 4 Bialne 20 60 0.145 0.078 7 10 12 Henry 8 0.033 4 6 4 Carater 20 60 0.145 0.078 7 10 12 Hewal 12(3400 0.033 4 6 4 Damora 21 0.0467 7 10 12 Hewal 12(3400 0.038 1.033 4 6 4 Damora 22 0.0166 0.077 7 <th></th>																
20 00 0.221 0.008 6 10 12 Greenie 10(5000 007 0.725 0.220 4 6 4 8 Base-ministration 20 00 0.144 0.007 7 10 12 Amanda 0 0.017 0.011 0.018 0.031 4 6 6 4 Damains 15 00 0.119 0.018 7 9 112 Mascon 25(3000 90 0.018 0.031 4 6 4 Damains 26 00 0.134 0.038 7 9 112 Mascon CS 90 0.044 4 6 4 Pamains									S	W	Ss	S ₁	11	12	ΤL	
20 0.0 0.164 0.058 7 10 12 Gauge 25(400) 90 0.174 0.043 4 6 4.46 Bit Home 20 90 0.158 0.054 7 10 12 Heiney 26(400) 90 0.170 0.037 4 6 4.46 Aute 20 90 0.158 0.057 7 10 12 Heiney 26(400) 907 0.170 0.037 4 6 4.46 Cascade 21 90 0.164 0.077 7 10 12 Heiney 26(300) 90 0.161 0.037 4 6 4 4 0.446 0.									10(5000)	Q0*	0 725	0 220	л	e	e	
20 0.0 0.048 0.027 7 10 12 Harrison 6 90 0.023 0.027 4 6 9 0.033 0.27 4 6 9 0.033 0.27 4 6 90 0.033 4 6 90 0.033 4 6 90 0.033 4 6 90 0.010 0.033 4 6 6 0.033 4 6 6 0.033 4 6 6 0.033 4 6 4 0.034 4 6 6 0.033 10																
20 00 0.146 0.027 7 10 12 Heikory 6 90 0.277 0.07 4 6 6 Hoadwaler 20 80 0.124 0.003 7 10 12 Heikory 303700 80 0.277 0.07 4 6 440 Cathon 20 80 0.124 0.033 7 10 12 Hone 233000 80 0.141 0.034 4 6 44 Cathon 21 80 0.176 0.037 10 12 Hone 233000 80 0.181 0.038 4 6 4 Dennifs 21 80 0.175 6 9 12 Johne 233000 80 0.038 0.031 4 6 4 Dennifs 21 0.0175 0.017 10 12 Lawrine CS 80 0.038 0.031 4 6 4 Bathan 21 0.138 0.035 0.034 0.035 0.034 0.034 <td></td>																
20 00 0.183 0.124 0.120 7 10 12 Heider 25(410) 90 0.170 0.109 0.48 4 6 4.44 Carter 21 80 0.163 0.077 7 10 12 Hower 11.33 0.010 0.024 4 6 4 6 Actarer 22 80 0.163 0.077 7 10 12 Jackson 25(300) 80 0.163 0.037 4 6 4 Daniels 23 80 0.175 0.076 7 9 12 Jackson 25(300) 80 0.038 0.034 4 6 4 Daniels 23 80 0.175 0.076 7 10 12 Jackson 25(300) 80 0.038 0.034 4 6 4 4 6 4 4 6 4 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 <																
20 60 0.124 0.126 0.027 7 10 12 Howard S0(2700) 90 0.118 0.033 4 6 6 Cascade 15 80 0.481 0.161 7 10 12 Howard CS 90 0.141 0.053 4 6 4 Cascade 15 80 0.156 0.177 8 11 12 Jaskson CS 90 0.018 0.033 4 6 4 Dawson 20 80 0.157 0.806 0.77 8 11 12 Jaskson CS 80 0.038 0.014 4 6 4 Failon 20 80 0.158 0.028 7 10 12 Lasympte CS 80 0.045 0.038 0.044 6 6 Galacier Viage 21 10112 Lasympte CS 80 0.045 0.038 10 4 6 6 Galacier Viage 22 80 0.151 0.057 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																
16 80 0.441 0.163 7 0 12 Howel CS 90 0.141 0.053 4 6 4 Custer 20 80 0.170 0.080 7 1 12 Jackson 25(300) 80 0.133 0.033 4 6 4 Dest-Log 20 80 0.170 0.089 7 1 12 Jackson 25(300) 80 0.133 0.48 6 4 Dest-Log 20 80 0.134 0.087 7 10 12 Jachson 25(300) 80 0.031 4 6 4 Fergus 21 80 0.148 0.168 7 10 12 Lawree 25(300) 0.038 0.033 4 6 6 Gaster 23(300) 0.038 0.033 0.168 0.084 6 6 Gaster 23(300) 0.038 0.033 0.168 0.084 6 6 Gaster 23(300) 0.033 0.168 0.084 6 6 Gaster<																
20 80 0.710 0.208 7 9 12 Incom 22(300) 90 0.108 4 6 4 Custering 15 90 0.157 0.068 7 10 12 Jaskerno 22(300) 90 0.038 4 6 4 Davids 20 90 0.154 0.068 7 7 10 12 Jaskerno 23(300) 90 0.038 4 6 4 Davids 6 6 4 Davids 6 6 6 Fallon 10 12 Lakeled CS 90 0.049 4 6 6 6 Galain 10 10 12 Lakeled CS 90 0.138 4 6 6 Galain 10 10 12 Lakeled CS 90 0.128 4 6 6 Galain 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1										90*			4			
20 00 0.127 0.080 7 0.0 12 Jaksen 22(300) 60 0.038 0.033 4 6 4 Demisis 20 0.0 0.156 0.175 6 8 12 Jaksen CS 60 0.038 0.031 4 6 4 Dewson 20 0.0 0.154 0.058 0.0158 0.0158 0.0158 0.0158 0.0158 0.0158 0.0158 0.0158 0.0158 0.0158 0.0158 0.0058 0.0158 0.0058 0.0158 0.0058 0.0158 0.0058 0.0158 0.0058 0.0158 0.0058 0.0058 0.0158 0.0058 0.0168 0.0158 0.0058<	15	90	0.481	0.161	7	10	12	Howell		90*	0.141	0.053	4	6	4/6	Chouteau
15 80 0.156 0.177 8 11 12 Jasper 25(300) 90 0.038 0.030 4 6 6 4 Deer Lodge 20 90 0.137 0.085 0.177 0 12 Jafferson 30(2700) 80 0.038 0.031 4 6 6 4 Fallen 20 90 0.136 0.068 7 10 12 Lakance CS 90 0.235 4 6 6 Gallen 20 90 0.138 0.068 7 10 12 Lawrence CS 90 0.0746 0.230 4 6 6 Gallen 20 90 0.134 0.074 0.0746								Iron			0.100					
20 80 0.595 0.175 0.6 0.7 10 12 Johnson CS 90 0.388 0.131 4 6 4 Perlogs 20 80 0.134 0.088 7 7 10 12 Konze CS 80 0.118 0.048 4 6 4 Perlogs 20 90 0.134 0.078 7 7 10 12 Laffydde CS 80 0.149 0.048 4 6 6 4 Galabian 15 90 0.144 0.074 6 9 12 Lervis CS 90 0.347 0.085 4 6 6 Galabian 6 Galabian 6 6 Galabian 6 Galabian 6 6 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Jackson</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Daniels</td>								Jackson								Daniels
20 80 0.134 0.068 7 0 12 Johnson 30(370) 90 0.085 0.031 4 6 4 Felra 20 80 0.144 0.087 7 9 12 Lackdee CS 80" 0.383 0.113 0.014 0.085 0.014 0.085 0.014 0.012 0.014 0.0124 0.014 0.0124 0.014 0.014 0.014 0.014 0.014 0.0124 0.014 0.0124 0.014 0.0124 0.014 0.0124 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0																
20 90 0.1.4.8 0.0.68 7 9 1.2 Knox CS 90 0.119 0.0.49 6.0.8 4 6 6 Fergus 20 90 0.128 0.008 7 10 12 Larbyette CS 90 0.748 0.275 4 6 6 Fergus 20 90 0.154 0.074 0.154 0.074 0.083 4 6 4 Galatér 20 90 0.154 0.074 7 10 12 Lincohn 23(4100) 90 0.128 4 6 4/6 Galatér 20 90 0.117 0.060 7 10 12 Marcon CS 90 0.120 4 6 6 Galatér 20 90 0.144 0.063 6 9 12 Marcon CS 90 0.100 0.024 4 6 6 Lintrikwand 20 90 0.148 0.067 7 10 12 Marcon CS																
20 90 0.128 0.03 7 10 12 Lafeydet CS 90 ⁺ 0.236 4 6 6 Gantalian 15 90 0.189 0.088 8 11 12 Lawrence Z(3000) 90 0.045 0.036 4 6 6 Gantalian 20 90 0.112 0.061 6 91 12 Livarence Z(3000) 90 0.043 6 6 Gantalian 20 90 0.112 0.061 7 10 12 Livarence CS 90 0.1023 4 6 6 6 Gantalian 15 90 0.173 0.061 8 11 12 Machon CS 90 0.170 0.064 4 6 6 Lake 20 0.0142 0.017 7 9 12 Machon CS 90 0.170 0.044 6 6 Lake 20 0.042 0.043 7 9 12 Machon CS																
20 0 1.12 0.063 7 10 12 Largeyete CS 90 0.746 0.034 4 6 6 6 claider 20 90 0.154 0.014 0.014 6 9 1.2 Lewis CS 90 0.034 0.030 4 6 6 Gelacier 20 90 0.112 0.012 0.014 0.014 6 6 Gelacier 20 90 0.112 0.012 0.014 0.014 6 6 Gelacier 21 90 0.114 0.017 0.014 0.023 4 6 6 Lewis and 20 90 0.144 0.023 7 9 12 Marine CS 90 0.791 0.030 4 6 6 Lewis and 20 90 0.232 0.114 7 10 12 Marine CS 90 0.230 4 6 6 Lewis and 20 90 0.230 1.033 1.014																
15 90 0.154 0.074 6.9 9 12 Lewise 23(300) 90 0.085 0.033 0.086 4 6 6 Galacier 20 90 0.154 0.074 0.118 0.087 7 10 12 Luncoh 25 80 0.139 0.083 4 6 6 Galacier 20 90 0.172 0.081 6 11 12 MacDonald CS 80 0.724 0.016 4 6 6 Galacier 20 90 0.142 0.017 10 11 12 MacDonald CS 90 0.716 0.044 6 6 6 Luke 20 0.0142 0.014 0.023 7 9 12 Marcon CS 90 0.716 0.044 6 6 Luke* 6 6 Luke* 6 6 Luke* 6 6 Luke* 6 6 MacDonald 7 0.023 0.027 4 6 6 MacDonald																
20 90 0.154 0.074 6 9 12 Lewis CS 90 0.347 0.086 4 6 6 6 claceir 20 90 0.118 0.022 7 10 12 Lun CS 90 0.404 0.128 4 8 6 Granite 20 90 0.142 0.007 7 10 12 Lungston CS 90 0.167 0.028 4 8 6 6 frainte 15 90 0.144 0.081 7 10 12 Marken CS 90 0.701 0.207 4 6 6 Lewis A 20 90 0.047 0.048 7 10 12 Marken CS 90 0.701 0.207 4 6 6 Lewis and 20 90 0.274 0.083 7 9 12 Marken CS 9																
20 90 0.232 0.119 6.6 9 12 Lincoh 25(4100) 80 0.139 0.064 4 6 4/6 Grantle 20 90 0.112 0.060 7 10 12 Livingston CS 90 0.101 0.028 4 6 4/6 Hill 20 90 0.173 0.018 8 11 12 McCondle CS 90 0.167 0.46 4 6 4/6 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 15 14 14 14 14 14 14 14 14 14 14 14 14 14 10 12 McConte 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																
20 90 0.112 0.062 7 10 12 Linn Cs 90 0.444 0.073 4 6 6 Grante 15 90 0.172 0.081 8 11 12 McDonaid Cs 90 0.724 0.218 4 6 6 Jefferson 15 90 0.142 0.071 7 10 12 Madison CS 90 0.074 4 6 Lake 20 90 0.034 0.053 7 10 12 Mercer CS 90 0.071 0.207 4 6 6 Liberig and 20 90 0.034 0.038 7 10 12 Morroe CS 90 0.077 0.44 6 6 Madison 20 90 0.170 0.083 7 9 12 Morroe CS 90 0.470 0.122 4 6 Medison 20 90 0.170 0.083 7 9 12 Morore																
20 90 0.112 0.000 7 10 12 Muchanization CS 80 0.100 0.028 4 6 Hiff 20 90 0.142 0.021 7 10 12 Macon CS 90 0.167 0.065 4 6 Jucith Bain 20 90 0.242 0.114 7 10 12 Maries CS 90 0.771 0.027 4 6 6 Lake 20 90 0.128 0.183 0.183 0.183 0.183 0.184 0.083 6 9 0.176 0.064 4 6 6 Lake 20 90 0.179 0.083 7 9 12 Monisau CS 90 0.170 0.034 4 6 6 Microar 20 90 0.176 0.043 7 10 12 Morganery CS 90 0.014 0.043 6 6 Microar 15 90 0.164 0.076 7																
15 90 0.172 0.011 7 10 12 MacDonald CS 90 0.724 0.217 0.61 4 6 6 Jefferson 15 90 0.142 0.021 7 10 12 Madison CS 90 0.920 0.14 6 6 Lake 20 90 0.144 0.023 0.141 7 10 12 Marion CS 90 0.174 0.044 4 6 6 Lake 20 90 0.234 0.083 7 10 12 Marion CS 90 0.174 0.043 4 6 6 Madison 20 90 0.276 0.033 7 9 12 Monroe CS 90 0.647 0.132 4 6 6 Madison 15 90 0.477 0.083 7 9 12 Morgan 20(300) 90 0.057 6 Madison CS 80 0.621 0.184 6 6 Madison																
20 90 0.167 0.167 0.167 0.068 4 6 6 Lake 20 90 0.282 0.114 7 10 12 Maries CS 90 0.207 4 6 6 Lake 20 90 0.184 0.083 6 91 12 Marino CS 90 0.176 0.044 4 6 6 Lavis and 20 90 0.184 0.083 7 10 12 Missingi 30(230) 0.187 0.182 4 6 6 Librity 20 90 0.197 0.083 7 9 12 Morigomery CS 90 0.407 0.182 4 6 6 Missionia 20 90 0.197 0.0168 0.197 10 12 Morigomery CS 90 0.407 1.018 4 6 6 Missouia 15 90 0.144 0.078 7 10 12 Nerwin 25(3000) 90 0.018 <td></td>																
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25 90 0.126 0.040 7 10 12 Clay																
	20	90	0.292	0.114	7	10	12	Wright								
443									25	90	0.126	0.040	7	10	12	Clay
								4.	43							

	D	K. Climat	ological	Dat	a by C	County				Meta	l Buildir	ıg Sy	/stem	s Manua	<u>.1</u>
S	W	S₅	S ₁	11	12	ΤL	County Name	S	W	S₅	S ₁	11	12	ΤL	County Name
25	90	0.160	0.042	7	10	12	Colfax	20(5400)	90	0.495	0.167	4	6	6/8	Elko
25 25	90 90	0.127 0.110	0.039 0.034	7 6	10 9	12 4/12	Cuming Custer	5(4000) CS	90 90	0.746 0.565	0.251 0.182	4 4	6 6	6/8 6	Esmeralda Eureka
25 30	90 90	0.102	0.034	7	9 10	12	Dakota	5(4000)	90 90	0.565	0.182	4	6	6/8/16	Humboldt
20	90	0.184	0.046	5	7	4	Dawes	5(4000)	90	0.694	0.231	4	6	6	Lander
25	90	0.101	0.035	6	10	4/12	Dawson	0(2000)	90	0.449	0.139	4	6	6	Lincoln
25 30	90 90	0.096 0.111	0.037 0.036	5 7	8 10	4 12	Deuel Dixon	5(4000) 5(4000)	90 90	1.237 1.438	0.474 0.561	4 4	6 6	6 6	Lyon Mineral
25	90	0.143	0.030	7	10	12	Dodge	5(4000)	90* 90*	0.668	0.226	4	6	6/8	Nye
25	90	0.121	0.042	7	10	12	Douglas	5(4000)	90	0.592	0.214	4	6	6	Pershing
25	90	0.089	0.034	5	9	4	Dundy	5(4000)	90	1.387	0.524	4	6	6	Storey
25 25	90 90	0.147 0.104	0.043 0.038	7 7	10 10	12 12	Fillmore	15(4400) 15(6400)	90* 90	1.500 0.371	0.601 0.118	4 4	6 6	6/16 6	Washoe White Pine
25	90 90	0.097	0.038	6	9	4/12	Franklin Frontier	15(0400)	90	0.571	0.110	4	0	0	vville Fille
25	90	0.107	0.037	7	10	12	Furnas								NEW
25	90	0.168	0.047	7	10	12	Gage						_	_	HAMPSHIRE
20 25	90 90	0.100 0.130	0.037 0.036	5 6	8 10	4 4/12	Garden Garfield	80(600) 90(700)	90 90	0.398 0.386	0.087 0.086	4 4	6 6	6 6	Belknap Carroll
25	90	0.100	0.035	7	10	12	Gosper	CS	90* 90*	0.380	0.080	4	6	6	Cheshire
25	90	0.119	0.037	5	8	4	Grant	CS	90*	0.310	0.086	4	6	6	Coos
25	90	0.141	0.039	7	10	12	Greeley	CS	90*	0.321	0.086	4	6	6	Grafton
25 25	90 90	0.130	0.039	7 7	10	12	Hall	60(500)	93	0.315	0.075	4	6	6 6	Hillsborough
25 25	90 90	0.137 0.106	0.040 0.037	7	10 10	12 12	Hamilton Harlan	70(500) 50(500)	90 97	0.370 0.359	0.083 0.079	4 4	6 6	6	Merrimack Rockingham
25	90	0.089	0.033	6	9	4	Hayes	60(500)	95	0.364	0.081	4	6	õ	Strafford
25	90	0.091	0.034	6	9	4	Hitchcock	Ès É	90*	0.306	0.080	4	6	6	Sulli∨an
35	90	0.139	0.036	6	9	4/12	Holt								
25 25	90 90	0.115 0.138	0.036 0.039	5 7	9 10	4 12	Hooker Howard	20	110	0.185	0.050	7	9	6	NEW JERSEY Atlantic
25	90	0.156	0.045	7	10	12	Jefferson	25	100	0.365	0.071	6	8	6	Bergen
25	90	0.158	0.047	7	10	12	Johnson	20	100	0.264	0.059	6	9	6	Burlington
25	90	0.106	0.037	7	10	12	Kearney	20	94	0.265	0.059	6	9	6	Camden
25 30	90 90	0.091 0.142	0.035 0.036	5 6	9 9	4 4	Keith Keya Paha	20 20	112 100	0.147 0.204	0.046 0.052	7 7	9 9	6 6	Cape May Cumberland
20	90	0.142	0.030	5	7	4	Kimball	20	100	0.204	0.052	6	8	6	Essex
35	90	0.150	0.038	7	10	12	Knox	20	94	0.259	0.058	6	9	6	Gloucester
25	90	0.177	0.046	7	10	12	Lancaster	25	102	0.362	0.070	6	8	6	Hudson
25	90	0.092	0.033	6	9	4 4	Lincoln	CS	90	0.302	0.065	6	8	6	Hunterdon
25 25	90 90	0.099 0.123	0.033 0.035	6 6	9 9	4 4/12	Logan Loup	30 25	95 99	0.291 0.331	0.062 0.067	6 6	8 8	6 6	Mercer Middlesex
25	90	0.098	0.034	5	9	4	McPherson	25	109	0.301	0.063	õ	8	ő	Monmouth
25	90	0.138	0.039	7	10	12	Madison	CS	90	0.340	0.069	6	8	6	Morris
25 20	90 90	0.142 0.119	0.040 0.041	7 5	10 8	12 4	Merrick Morrill	20 30	110 92	0.237 0.361	0.056 0.071	6 6	9 8	6 6	Ocean Passaic
20	90 90	0.119	0.041	7	10	12	Nance	20	92 91	0.301	0.071	7	9	6	Salem
20	90	0.142	0.047	7	10	12	Nemaha	30	91	0.326	0.067	6	8	6	Somerset
25	90	0.119	0.040	7	10	12	Nuckolls	CS	90	0.285	0.065	6	8	6	Sussex
25 20	90 90	0.135 0.164	0.045 0.048	7 7	10 10	12 12	Otoe Pawnee	25 CS	99 90	0.357 0.270	0.070 0.063	6 6	8 8	6 6	Union Warren
20	90 90	0.088	0.048	5	10	4	Perkins		90	0.270	0.003	0	0	0	vvarien
25	90	0.102	0.036	7	10	12	Phelps								NEW MEXICO
30	90	0.135	0.038	7	10	12	Pierce	5(5000)	90*	0.564	0.170	4	6	6	Bernalillo
25 25	90 90	0.157 0.161	0.041 0.042	7 7	10 10	12 12	Platte Polk	5(5000) 5(3200)	90 90	0.269 0.119	0.080 0.041	4 4	6 7	6 6	Catron Cha∨es
25	90 90	0.098	0.042	6	9	4/12	Red Willow	5(5000)	90 90	0.350	0.041	4	6	6	Cibola
20	90	0.141	0.049	7	10	12	Richardson	`cs ´	90	0.216	0.064	4	7	6	Colfax
30	90	0.137	0.035	6	9	4	Rock	15	90	0.115	0.035	5	8	6	Curry
25 25	90 90	0.171 0.131	0.046 0.043	7 7	10 10	12 12	Saline Sarpy	5(3200) 0(3500)	90 90	0.117 0.307	0.039 0.099	4 4	7 6	6 6	De Baca Dona Ana
25	90 90	0.131	0.043	7	10	12	Saunders	5(3200)	90 90	0.307	0.099	4	7	6	Eddy
20(4500)	90	0.141	0.045	4	7	4	Scotts Bluff	5(5000)	90	0.272	0.081	4	6	6	Grant
25	90	0.182	0.045	7	10	12	Seward	15(4800)	90*	0.153	0.052	4	7	6	Guadalupe
20 25	90 90	0.170 0.131	0.043 0.038	5 7	7 10	4 12	Sheridan Sherman	10(5000)	90 90	0.159 0.269	0.047 0.079	5 4	8 6	6 6	Harding Hidalgo
15(5500)	90 90	0.195	0.058	4	7	4	Sioux	5(3200)	90 90	0.209	0.079	5	8	6	Lea
25	90	0.134	0.039	7	10	12	Stanton	CS	90*	0.276	0.087	4	6	6	Lincoln
25	90	0.137	0.043	7	10	12	Thayer	CS	90*	0.492	0.159	4	6	6	Los Alamos
25 25	90 90	0.112	0.035	6	9 10	4	Thomas	0(3500) 5(5000)	90 90	0.257	0.079 0.058	4	6 6	6 4/6	Luna MoKipley
25 25	90 90	0.117 0.137	0.038 0.038	7 7	10 10	12 12	Thurston Valley	10(5000)	90 90	0.251 0.303	0.058	4 4	6 7	4/6 6	McKinley Mora
25	90	0.118	0.040	7	10	12	Washington	0(3500)	90*	0.319	0.100	4	6	6	Otero
25	90	0.125	0.038	7	10	12	Wayne	15(4800)	90	0.165	0.042	5	8	6	Quay
25	90	0.108	0.039	7	10	12	Webster	CS E(2000)	90*	0.281	0.092	4	6	4/6	Rio Arriba
25 25	90 90	0.136 0.158	0.038 0.043	7 7	10 10	12 12	Wheeler York	5(3200) CS	90 90	0.108 0.553	0.034 0.170	5 4	8 6	6 4/6	Roose∨elt Sando∨al
25	50	0.100	0.040	'	10	12	TOR	5(5000)	90 90	0.555	0.054	4	6	4/0	San Juan
							NEVADA	10(5000)	90*	0.280	0.087	4	7	6	San Miguel
5(4000)	90	0.807	0.288	4	6	6	Churchill	CS	90*	0.424	0.136	4	6	6	Santa Fe
0(3000) CS	90 90	0.570 1.593	0.176 0.723	4 4	6 6	6/8 6	Clark Douglas	5(5000) 15(6000)	90 90	0.281 0.497	0.089 0.141	4 4	6 6	6 6	Sierra Socorro
00	00		5.720	т	2	0	Jougius	1 10(0000)	00	0.107	0.171	r	5	v	2000110

Metal Building Systems Manual

IX. Climatological Data by County

s	w	S₅	S ₁	11	12	TL	County Name	s	w	S₅	S ₁	11	12	TL	County Nam
CS	90	0.373	<u>91</u> 0.119	4	7	6	Taos	3 10	100	0.137	0.057	8	11	8	Bertie
10(5000)	90*	0.359	0.119	4	6	6	Torrance	10	108	0.338	0.037	8	11	8	Bladen
10(5000)	90	0.151	0.042	5	8	6	Union	10	131	0.320	0.104	9	11	8	Brunswick
5(5000)	90	0.581	0.170	4	6	6	Valencia	15(2600)	90*	0.392	0.106	6	9	12	Buncombe
. ,								15(2600)	90	0.311	0.099	6	9	8/12	Burke
							NEW YORK	Ì10 Í	90	0.292	0.101	6	9	8	Cabarrus
40	90	0.229	0.069	5	7	6	Albany	15(2600)	90	0.301	0.096	6	9	8/12	Caldwell
CS	90	0.171	0.052	4	6	6	Allegany	10	109	0.114	0.049	8	11	8	Camden
25	102	0.359	0.070	4	6	6	Bronx	10	132	0.148	0.062	9	11	8	Carteret
CS	90	0.166	0.056	4	6	6	Broome	20	90	0.195	0.076	7	10	8	Caswell
CS	90	0.177	0.050	4	6	6	Cattaraugus	15	90	0.282	0.097	6	9	8	Catawba
40(1000)	90	0.173	0.058	4	6	6	Cayuga	15	90	0.225	0.086	7	10	8	Chatham
CS	90	0.165	0.049	4	6	6/12	Chautauqua	10(1800)	90*	0.444	0.111	7	9	12	Cherokee
CS	90	0.153	0.053	4	6	6	Chemung	10	103	0.127	0.054	8	11	8	Chowan
CS	90	0.176	0.060	4	6	6	Chenango	10(1800)	90	0.413	0.108	7	9	12	Clay
50(700)	90	0.476	0.108	4	6	6	Clinton	15	90	0.317	0.103	6	9	8	Cle∨eland
35	90*	0.222	0.066	5	7	6	Columbia	10	114	0.411	0.126	9	11	8	Columbus
CS	90	0.164	0.057	4	6	6	Cortland	10	115	0.162	0.065	9	11	8	Craven
CS	90	0.193	0.062	5	7	6	Delaware	10	98	0.297	0.101	8	11	8	Cumberland
35	90*	0.258	0.066	5	8	6	Dutchess	10	114	0.109	0.047	8	11	8	Currituck
CS	90	0.275	0.058	4	6	6	Erie	10	123	0.097	0.045	9	11	8	Dare
CS	90	0.385	0.096	4	6	6	Essex	15	90	0.244	0.090	6	9	8	Davidson
CS	90	0.628	0.126	4	6	6	Franklin	15	90	0.249	0.091	6	9	8	Davie
50(700)	90	0.246	0.071	4	6	6	Fulton	10	109	0.230	0.084	9	11	8	Duplin
CS	90	0.266	0.060	4	6	6	Genesee	15	90	0.198	0.078	7	10	8	Durham
CS	90	0.221	0.065	5	7	6	Greene	15	96	0.157	0.065	8	11	8	Edgecombe
CS	90	0.303	0.080	4	6	6	Hamilton	15	90	0.231	0.086	6	9	8	Forsyth
CS	90	0.221	0.068	4	6	6	Herkimer	15	92	0.176	0.071	8	11	8	Franklin
CS	90 108	0.246	0.074	4	6	6	Jefferson	10	90	0.314	0.104	6	9	8	Gaston
20		0.351	0.069	6	8	6	Kings	10	99	0.130	0.053	8	11	8	Gates
CS	90	0.269	0.076	4	6 6	6	Lewis	10(1800)	90*	0.476	0.114	7	9	12	Graham
CS CS	90 90	0.223	0.057	4 4	6	6	Livingston	15	90	0.179	0.071	7 9	10	8 8	Granville
	90 90	0.193	0.064	4	6	6	Madison	10	102 90	0.180	0.071	9 7	11	8	Greene
0(1000) 40	90 90	0.206 0.242	0.058 0.071	4	6	6 6	Monroe Montgomery	15 15	90 93	0.218 0.153	0.083 0.062	8	10 11	8	Guilford Halifax
40 25	112	0.242	0.071	6	8	6	Nassau	15	95 95	0.133	0.002	8	11	8	Harnett
20	102	0.327	0.007	6	6	6	New York	15(2600)	90*	0.243	0.090	7	9	12	Haywood
CS 20	90	0.380	0.070	4	6	6	Niagara	15(2600)	90 90	0.422	0.109	7	9	8/12	Henderson
CS	90 90	0.280	0.059	4	6	6	Oneida	10	95	0.307	0.055	8	11	8	Hertford
cs	90	0.210	0.000	4	6	6	Onondaga	10	96	0.334	0.110	8	11	8	Hoke
35(1000)	90	0.187	0.057	4	6	6	Ontario	10	121	0.124	0.053	9	11	8	Hyde
CS	90*	0.285	0.067	5	ě	ő	Orange	15	90	0.264	0.094	6	9	8	Iredell
CS	90	0.247	0.059	4	6	ő	Orleans	15(2600)	90*	0.432	0.110	7	9	12	Jackson
CS	90	0.185	0.062	4	ĕ	ő	Oswego	15	96	0.209	0.080	8	11	8	Johnston
ĊŚ	90	0.205	0.065	4	6	6	Otsego	10	115	0.181	0.071	9	11	8	Jones
30	92*	0.296	0.068	5	8	6	Putnam	15	92	0.251	0.092	7	10	8	Lee
20	110	0.344	0.068	6	8	6	Queens	10	106	0.185	0.072	9	11	8	Lenoir
40	90*	0.232	0.069	5	7	6	Rensselaer	15	90	0.295	0.100	6	9	8	Lincoln
20	102	0.355	0.069	4	8	6	Richmond	15(2600)	90	0.342	0.102	6	9	8/12	McDowell
30	93*	0.347	0.071	6	8	6	Rockland	15(2600)	90*	0.414	0.109	7	9	12	Macon
ĊŚ	90	0.480	0.105	4	6	6	St. Lawrence	15(2600)	90*	0.417	0.108	6	9	12	Madison
50(700)	90	0.250	0.073	4	6	6	Saratoga	10	102	0.142	0.059	9	11	8	Martin
40	90	0.238	0.070	4	6	6	Schenectady	10	90	0.317	0.106	6	9	8	Mecklenburg
CS	90	0.226	0.068	5	7	6	Schoharie	15(2600)	90*	0.373	0.102	6	9	12	Mitchell
5(1000)	90	0.159	0.054	4	6	6	Schuyler	10	90	0.292	0.101	7	10	8	Montgomery
5(1000)	90	0.167	0.056	4	6	6	Seneca	10	93	0.280	0.099	7	10	8	Moore
5(1000)	90	0.164	0.053	4	6	6	Steuben	15	94	0.169	0.069	8	11	8	Nash
30	116	0.200	0.055	6	8	6	Suffolk	10	129	0.297	0.098	9	11	8	New Hanove
CS	90	0.224	0.062	5	8	6	Sulli∨an	15	92	0.148	0.060	8	11	8	Northampton
CS	90	0.159	0.055	4	6	6	Tioga	10	122	0.201	0.075	9	11	8	Onslow
CS	90	0.159	0.055	4	6	6	Tompkins	15	90	0.200	0.078	7	10	8	Orange
CS	90*	0.232	0.065	5	8	6	Ulster	10	121	0.148	0.061	9	11	8	Pamlico
CS	90	0.287	0.079	4	6	6	Warren	10	108	0.116	0.049	8	11	8	Pasquotank
40	90	0.269	0.077	4	6	6	Washington	10	120	0.265	0.091	9	11	8	Pender
0(1000)	90 06*	0.179	0.058	4	6	6	Wayne	10	105	0.123	0.052	8	11	8	Perquimans
30	96*	0.350	0.070	6	8	6	Westchester	20	90 102	0.186	0.073	7	10	8	Person
CS	90	0.242	0.058	4	6	6	Wyoming	10	103	0.159	0.065	9	11	8	Pitt
5(1000)	90	0.172	0.056	4	6	6	Yates	15(2600)	90	0.346	0.104	7	9 10	8	Polk Bandolah
							NORTH	15	90 04	0.244	0.091	7	10	8	Randolph Bishmond
							NORTH	10	94 102	0.372	0.118	7	10	8	Richmond
45	~~	0.000	0.004	-	40	~	CAROLINA	10	103	0.399	0.124	8	11	8	Robeson
15	90	0.208	0.081	7	10	8	Alamance	20	90	0.209	0.079	7	9	8	Rockingham
15	90	0.273	0.093	6	9	8	Alexander	15	90	0.262	0.095	6	9	8	Rowan
0(2500)	90*	0.295	0.089	6	8	12	Alleghany	15(2600)	90	0.332	0.103	6	9	8	Rutherford
10	93	0.369	0.117	7	10	8	Anson	10	102	0.257	0.092	8	11	8	Sampson
	90*	0.316	0.093	6	8	12	Ashe	10	97	0.405	0.125	8	10	8	Scotland
0(2500)		0.050	0.000												
20(2500) 5(2600) 10	90* 109	0.350 0.149	0.099 0.062	6 9	9 11	12 8	A∨ery Beaufort	10 20	90 90	0.298 0.230	0.103 0.082	7 6	10 9	8 8/12	Stanly Stokes

	_D	K. Climat	ological	Dat	a by C	County				Meta	l Buildir	ıg Sy	/stems	s Manu	al
s	w	Ss	S ₁	11	12	TL	County Name	s	w	S,	S ₁	11	12	TL	County Name
20(2500)	90	0.260	0.086	6	9	8/12	Surry	20	90	0.199	0.075	5	7	12	Brown
10(1800)	90*	0.461	0.113	7	9	12	Swain	20	90	0.172	0.073	5	7	12	Butler
15(2600)	90	0.383	0.106	7	9	12	Transyl∨ania	25	90	0.128	0.050	5	7	12	Carroll
10	115	0.117	0.051	9	11	8	Tyrrell	20	90	0.204	0.065	5	7	12	Champaign
10 15	90 90	0.361 0.174	0.115 0.069	7 8	10 10	8 8	Union Vance	20 20	90 90	0.190 0.182	0.066 0.074	5 5	7 7	12 12	Clark Clermont
15	90 93	0.174	0.069	8	10	8	Wake	20	90 90	0.162	0.074	5	7	12	Clinton
15	90	0.203	0.073	8	11	8	Warren	25	90	0.133	0.049	5	6	12	Columbiana
10	107	0.133	0.056	9	11	8	Washington	25	90	0.127	0.052	5	7	12	Coshocton
20(2500)	90*	0.327	0.096	6	9	12	Watauga	20	90	0.159	0.055	5	7	12	Crawford
10	101	0.200	0.077	8	11	8	Wayne	20	90	0.191	0.051	4	6	12	Cuyahoga
20(2500)	90	0.275	0.091	6	9	8/12	Wilkes	20	90	0.211	0.070	5	7	12	Darke
15	97	0.177	0.071	8	11	8	Wilson	20	90	0.163	0.056	5	7	12	Defiance
15	90 90*	0.247	0.088	6 6	9 9	8	Yadkin	20	90	0.156	0.058	5 5	7 7	12	Delaware
15(2600)	90	0.383	0.104	0	9	12	Yancey	20 25	90 90	0.152 0.143	0.050 0.059	5	7	12 12	Erie Fairfield
							NORTH	20	90	0.143	0.065	5	7	12	Fayette
							DAKOTA	20	90	0.148	0.059	5	7	12	Franklin
CS	90	0.077	0.029	4	7	4	Adams	20	90	0.150	0.053	5	7	12	Fulton
40	90	0.065	0.021	5	7	4	Barnes	20	90	0.169	0.065	5	7	12	Gallia
40	90	0.052	0.019	4	6	4	Benson	25	90	0.215	0.052	4	6	12	Geauga
30(2600)	90	0.078	0.028	4	6	4	Billings	20	90	0.178	0.067	5	7	12	Greene
50	90	0.055	0.019	4	6	4	Bottineau	25	90	0.123	0.052	5	7	12	Guernsey
35 35	90 90	0.079 0.091	0.030 0.023	4 4	6 6	4 4	Bowman Burke	20 20	90 90	0.176 0.187	0.074 0.057	5 5	7 7	12 12	Hamilton Hancock
35	90	0.068	0.023	4	7	4	Burleigh	20	90	0.209	0.061	5	7	12	Hardin
50	90	0.000	0.024	5	7	4	Cass	20	90	0.121	0.050	5	7	12	Harrison
60	90	0.046	0.016	4	6	4	Cavalier	20	90	0.159	0.054	5	7	12	Henry
40	90	0.081	0.025	5	7	4	Dickey	20	90	0.173	0.069	5	7	12	Highland
35	90	0.161	0.030	4	6	4	Di∨ide	25	90	0.145	0.059	5	7	12	Hocking
CS	90	0.075	0.026	4	6	4	Dunn	20	90	0.133	0.052	5	7	12	Holmes
40	90	0.055	0.020	4	7	4	Eddy	20	90	0.153	0.051	5	7	12	Huron
50 40	90 90	0.074 0.057	0.025 0.020	5 4	7 7	4 4	Emmons Foster	20 25	90 90	0.165 0.122	0.065 0.049	5 5	7 7	12 12	Jackson Jefferson
30(2600)	90	0.037	0.020	4	6	4	Golden Valley	20	90 90	0.122	0.049	5	7	12	Knox
60	90	0.055	0.018	4	7	4	Grand Forks	cs	90	0.215	0.052	4	6	12	Lake
40	90	0.072	0.026	4	7	4	Grant	20	90	0.191	0.070	5	7	12	Lawrence
40	90	0.058	0.020	4	7	4	Griggs	20	90	0.135	0.055	5	7	12	Licking
CS	90	0.072	0.027	4	7	4	Hettinger	20	90	0.228	0.065	5	7	12	Logan
35	90	0.064	0.023	5	7	4	Kidder	20	90	0.164	0.051	5	6	12	Lorain
40 40	90 90	0.075	0.023	5 5	7 7	4 4	La Moure	20	90 90	0.159	0.051	5 5	7 7	12	Lucas
40	90 90	0.069 0.056	0.024 0.020	5 4	6	4	Logan McHenry	20 20	90 90	0.166 0.151	0.063 0.049	5 4	6	12 12	Madison Mahoning
50	90	0.078	0.025	5	7	4	Mointosh	20	90	0.165	0.057	5	7	12	Marion
30(2600)	90	0.099	0.027	4	6	4	McKenzie	20	90	0.165	0.051	5	6	12	Medina
35	90	0.064	0.023	4	7	4	McLean	25	90	0.158	0.062	5	7	12	Meigs
CS	90	0.065	0.023	4	7	4	Mercer	20	90	0.247	0.068	5	7	12	Mercer
35	90	0.068	0.024	4	7	4	Morton	20	90	0.221	0.069	5	7	12	Miami
35 50	90 90	0.090	0.025	4	6 7	4	Mountrail	20 20	90 90	0.124	0.053	5 5	7 7	12	Monroe
35	90 90	0.052 0.066	0.018 0.024	4 4	7	4 4	Nelson Oliver	20	90 90	0.187 0.133	0.069 0.056	5	7	12 12	Montgomery Morgan
60	90	0.045	0.024	4	6	4	Pembina	20	90	0.150	0.055	5	7	12	Morrow
40	90	0.054	0.019	4	õ	4	Pierce	25	90	0.130	0.054	5	7	12	Muskingum
50	90	0.051	0.018	4	6	4	Ramsey	20	90	0.126	0.054	5	7	12	Noble
40	90	0.078	0.023	5	8	4	Ransom	20	90	0.154	0.051	5	7	12	Ottawa
40	90	0.070	0.021	4	6	4	Ren∨ille	20	90	0.172	0.059	5	7	12	Paulding
50	90	0.096	0.024	5	8	4	Richland	25	90	0.137	0.057	5	7	12	Perry
50 40	90 90	0.049 0.088	0.017 0.024	4 5	6 8	4 4	Rolette Sargent	20 20	90 90	0.150 0.166	0.061 0.066	5 5	7 7	12 12	Pickaway Pike
35	90 90	0.060	0.024	5 4	7	4	Sheridan	20	90 90	0.166	0.068	5 4	6	12	Portage
50	90	0.078	0.022	5	7	4	Sioux	20	90	0.179	0.071	5	7	12	Preble
35	90	0.076	0.029	4	6	4	Slope	20	90	0.199	0.060	5	7	12	Putnam
30(2600)	90	0.072	0.027	4	7	4	Stark	20	90	0.146	0.053	5	7 7	12	Richland
50	90	0.058	0.019	4	7	4	Steele	20	90	0.157	0.064	5	7	12	Ross
40	90	0.063	0.022	5	7	4	Stutsman	20	90	0.163	0.053	5	7	12	Sandusky
60 50	90	0.050	0.018	4	6 7	4 4	Towner	20	90	0.190	0.070	6	7	12	Scioto
50 60	90 90	0.062 0.049	0.019 0.017	4 4	6	4	Traill Walsh	20 20	90 90	0.167 0.256	0.054 0.069	5 5	7 7	12 12	Seneca Shelby
35	90 90	0.049	0.017	4	6	4	Ward	20	90 90	0.256	0.069	5 5	6	12	Stark
40	90	0.056	0.022	4	7	4	Wells	20	90	0.142	0.050	5	6	12	Summit
30(2600)	90	0.135	0.030	4	6	4	Williams	25	90	0.169	0.050	4	6	12	Trumbull
·/								25	90	0.127	0.050	5	7	12	Tuscarawas
							оню	20	90	0.175	0.061	5	7	12	Union
20	90	0.202	0.073	5	7	12	Adams	20	90	0.210	0.064	5	7	12	Van Wert
20	90	0.244	0.065	5	7	12	Allen	25	90	0.155	0.062	5	7	12	Vinton
20	90	0.147	0.052	5	7	12	Ashland	20	90	0.174	0.071	5	7	12	Warren
CS 25	90 90	0.206 0.147	0.051 0.060	4 5	6 7	12 12	Ashtabula Athens	20 20	90 90	0.135 0.144	0.056 0.051	5 5	7 7	12 12	Washington Wayne
25 20	90 90	0.147	0.060	5 5	7	12	Auglaize	20	90 90	0.144	0.051	5 5	7	12	Williams
20	90	0.121	0.051	5	7	12	Belmont	20	90	0.169	0.054	5	7	12	Wood
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Metal Building Systems Manual

IX. Climatological Data by County

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<u> </u>	90	S s 0.175	S ₁ 0.057	11 5	12 7	 12	County Name Wyandot	S 15	90	S₅ 0.159	S 1 0.051	11 7	12 11	<u>T∟</u> 12	County Name Woods
20	50	0.175	0.037	5	'	12	vvyanuoi	15	90 90	0.155	0.050	7	11	12	Woodward
							OKLAHOMA								
10 15	90 90	0.196 0.171	0.083 0.053	8 8	11 11	12 12	Adair Alfalfa	cs	85	0.367	0.111	4	6	6/16	OREGON Baker
10	90	0.208	0.053	8	11	12	Atoka	CS	85*	0.803	0.393	4	6	16	Benton
20	90	0.126	0.043	7	10	12	Beaver	CS	85*	0.907	0.322	4	6	16	Clackamas
15	90	0.204	0.055	7	11	12	Beckham	CS	85*	1.317	0.650	4	6	16	Clatsop
10	90	0.291	0.066	8	11	12	Blaine	10(600)	85* 05*	0.882	0.330	4 4	6	16	Columbia
5 10	90 90	0.192 0.395	0.065 0.082	8 8	11 11	12 12	Bryan Caddo	CS 10(3200)	85* 85*	1.500 0.353	0.704 0.141	4	6 6	16 16	Coos Crook
10	90	0.364	0.075	8	11	12	Canadian	5(300)	85*	1.770	0.749	4	6	16	Curry
10	90	0.229	0.066	8	11	12	Carter	CS	85*	0.393	0.164	4	6	16	Deschutes
10	90 90	0.185	0.078	8 8	11	12 12	Cherokee	10(600)	85*	0.802	0.408	4 4	6 6	16	Douglas
5 10(5000)	90 90	0.175 0.138	0.069 0.041	6	11 8	6	Choctaw Cimarron	20(2800) 10(3200)	85 85	0.439 0.349	0.141 0.110	4	6	16 16	Gilliam Grant
10	90	0.340	0.076	8	11	12	Cleveland	10(3200)	85	0.271	0.103	4	6	8/16	Harney
10	90	0.221	0.070	8	11	12	Coal	CS	85*	0.517	0.193	4	6	16	Hood River
10	90	0.361	0.083	8	11	12	Comanche	CS	85 05*	0.580	0.262	4	6	16	Jackson
10 15	90 90	0.271 0.146	0.069 0.070	8 8	11 11	12 12	Cotton Craig	CS CS	85* 85	0.391 0.760	0.153 0.381	4 4	6 6	16 16	Jefferson Josephine
10	90	0.140	0.067	8	11	12	Creek	cs	85*	0.886	0.343	4	6	16	Klamath
10	90	0.240	0.061	7	11	12	Custer	10(3200)	85	0.562	0.222	4	6	16	Lake
15	90	0.163	0.076	8	11	12	Delaware	10(600)	85*	0.671	0.330	4	6	16	Lane
15 15	90 90	0.202 0.158	0.056 0.049	7 7	11 11	12 12	Dewey Ellis	5(100) 10(600)	85* 85	1.813 0.743	0.690 0.345	4 4	6 6	16 16	Lincoln Linn
15	90	0.138	0.049	8	11	12	Garfield	10(3200)	85	0.323	0.109	4	6	6/8/16	Malheur
10	90	0.306	0.073	8	11	12	Garvin	10(600)	85	0.796	0.340	4	6	16	Marion
10	90	0.393	0.081	8	11	12	Grady	15(1500)	85	0.371	0.123	4	6	16	Morrow
15 10	90 90	0.165 0.199	0.055 0.055	8 7	11 11	12 12	Grant Greer	10(600) CS	85 85*	0.983 0.888	0.344 0.424	4 4	6 6	16 16	Multnomah Polk
10	90	0.199	0.050	7	11	12	Harmon	20(2800)	85	0.888	0.424	4	6	16	Sherman
20	90	0.136	0.046	7	10	12	Harper	CS	85*	1.307	0.659	4	6	16	Tillamook
10	90	0.202	0.078	8	11	12	Haskell	20(1900)	85	0.397	0.122	4	6	16	Umatilla
10 10	90 90	0.236 0.194	0.071 0.056	8 7	11 11	12 12	Hughes Jackson	CS CS	85 85	0.350 0.475	0.111 0.138	4 4	6 6	16 6/16	Union Wallowa
5	90	0.223	0.062	8	11	12	Jefferson	cs	85*	0.474	0.130	4	6	16	Wasco
10	90	0.223	0.067	8	11	12	Johnston	10(600)	85*	0.917	0.355	4	6	16	Washington
15	90	0.144	0.056	8	11	12	Kay	CS	85	0.415	0.137	4	6	16	Wheeler
10 10	90 90	0.322 0.260	0.070 0.065	8 7	11 11	12 12	Kingfisher Kiowa	CS	85*	0.859	0.387	4	6	16	Yamhill
10	90	0.200	0.005	8	11	12	Latimer								PENNSYLVANIA
10	90	0.203	0.084	8	11	12	Le Flore	30(1700)	90	0.167	0.051	6	9	6	Adams
10	90	0.223	0.067	8	11	12	Lincoln	25	90	0.125	0.049	5	7	12	Allegheny
10 5	90 90	0.275 0.202	0.069 0.062	8 8	11 11	12 12	Logan Love	CS 25	90 90	0.127 0.127	0.048 0.048	4 5	6 6	12 12	Armstrong Bea∨er
10	90 90	0.202	0.002	8	11	12	McClain	CS	90 90	0.127	0.048	5	7	12	Bedford
10	90	0.171	0.074	8	11	12	McCurtain	CS	90	0.261	0.060	6	8	6	Berks
10	90	0.198	0.074	8	11	12	McIntosh	30(1700)	90	0.145	0.049	5	7	6/12	Blair
15 5	90 90	0.219 0.212	0.059 0.065	8 8	11 11	12 12	Major Marshall	30(1700) 30	90 90	0.161 0.282	0.054 0.062	4 6	6 8	6 6	Bradford Bucks
10	90 90	0.212	0.003	8	11	12	Mayes	25	90 90	0.282	0.002	4	6	12	Butler
10	90	0.263	0.070	8	11	12	Murray	cs	90	0.136	0.049	5	7	12	Cambria
10	90	0.185	0.074	8	11	12	Muskogee	30(1700)	90	0.137	0.048	4	6	6	Cameron
10 15	90 90	0.200 0.139	0.062 0.065	8 8	11 11	12 12	Noble Nowata	CS 30(1700)	90 90	0.228 0.146	0.059 0.049	6 5	8 7	6 6	Carbon Centre
10	90 90	0.139	0.065	8	11	12	Okfuskee	25	90 90	0.146	0.049	5 6	9	6	Chester
10	90	0.338	0.075	8	11	12	Oklahoma	30(1700)	90	0.131	0.047	4	6	12	Clarion
10	90	0.184	0.070	8	11	12	Okmulgee	30(1700)	90	0.135	0.047	5	7	6/12	Clearfield
10 15	90 90	0.140 0.145	0.061 0.072	8 8	11 11	12 12	Osage Ottawa	30(1700) CS	90 90	0.146 0.184	0.050 0.054	5 5	7 7	6 6	Clinton Columbia
10	90 90	0.145	0.072	8	11	12	Pawnee	30(1700)	90 90	0.164	0.054	4	6	12	Crawford
10	90	0.199	0.064	8	11	12	Payne	25(1200)	90	0.170	0.051	5	8	6	Cumberland
10	90	0.205	0.072	8	11	12	Pittsburg	30(1700)	90	0.188	0.053	6	8	6	Dauphin
10 10	90 90	0.262 0.266	0.072 0.071	8 8	11 11	12 12	Pontotoc Pottawatomie	25 30(1700)	90 90	0.273 0.134	0.060 0.047	6 4	9 6	6 6/12	Delaware Elk
10	90 90	0.266	0.071	8	11	12	Pushmataha	CS	90 90	0.134	0.047	4	6	12	Erie
15	90	0.189	0.053	7	11	12	Roger Mills	CS	90	0.131	0.050	5	7	12	Fayette
10	90	0.156	0.068	8	11	12	Rogers	30(1700)	90	0.136	0.048	4	6	12	Forest
10	90 90	0.239	0.071	8	11	12 12	Seminole Seguovah	30(1700)	90	0.162	0.050	5	8 7	6/8 8/12	Franklin
10 10	90 90	0.202 0.333	0.082 0.076	8 8	11 11	12 12	Sequoyan Stephens	CS 20	90 90	0.163 0.128	0.050 0.051	5 5	7	8/12 12	Fulton Greene
15	90	0.126	0.041	6	9	6/12	Texas	30(1700)	90	0.152	0.049	5	7	6/12	Huntingdon
10	90	0.194	0.057	8	11	12	Tillman	CS	90	0.128	0.048	5	7	12	Indiana
10	90	0.161	0.066	8	11	12	Tulsa	CS	90	0.130	0.048	4	6	12	Jefferson
10 15	90 90	0.175 0.136	0.073 0.062	8 8	11 11	12 12	Wagoner Washington	25(1200) CS	90 90	0.158 0.199	0.050 0.058	5 5	7 7	6 6	Juniata Lackawanna
10	90	0.260	0.064	7	11	12	Washita	30(1700)	90	0.244	0.057	6	9	6	Lancaster
								47							

		. Climat	ological	Dat		County				Meta	l Buildin	ig Sy	stems	ms I	Manua	<u>1 </u>
S	W	S,	S ₁	11	12	ΤL	County Name	S	W	S₅	S ₁	11	12	2	TL	County Name
25	90	0.137	0.048	4	6	12	Lawrence	10(1800)	90	0.361	0.105	7	9		12	Pickens
60(1700)	90	0.230	0.057	6	8	6	Lebanon	10	95	0.551	0.149	8	10		8	Richland
CS	90	0.257	0.061	6	8	6	Lehigh	10	91	0.430	0.122	7	10		8	Saluda
CS	90	0.200	0.057	5	7	6	Luzerne	10	90 07	0.348	0.107	7	9		8	Spartanburg
35(800) CS	90 90	0.154 0.145	0.051 0.048	5 4	7 6	6 6/12	Lycoming McKean	10 10	97 90	0.758 0.383	0.199 0.114	8 7	10 9		8 8	Sumter Union
30	90 90	0.145	0.048	4	6	12	Mercer	10	90 111	1.819	0.470	9	11		8	Williamsburg
25(1200)	90	0.155	0.050	5	7	6	Mifflin	10	90	0.350	0.110	6	9		8	York
CS	90	0.248	0.062	6	8	õ	Monroe		00	0.000	0.110	Ŭ	0	, ,	0	1 on
30	90	0.278	0.061	6	8	6	Montgomery									SOUTH
CS	90	0.177	0.053	5	7	6	Montour									DAKOTA
CS	90	0.267	0.062	6	8	6	Northampton	40	90	0.186	0.037	6	9)	4	Aurora
CS	90	0.172	0.052	5	7	6	Northumberland	40	90	0.167	0.034	6	9)	4	Beadle
5(1200)	90	0.167	0.051	5	8	6	Perry	25	90	0.173	0.041	5	8		4	Bennett
25	90	0.269	0.060	6	9	6	Philadelphia	40	90	0.158	0.038	6	10		12	Bon Homme
CS	90	0.249	0.063	5	8	6	Pike	50	90	0.109	0.029	6	9		4	Brookings
CS	90	0.144	0.049	4	6	6	Potter	50	90	0.097	0.027	5	8		4	Brown
CS	90	0.220	0.057	6 5	8 7	6	Schuylkill	40	90	0.179	0.038	6	9 9		4	Brule
5(800) CS	90 90	0.163 0.136	0.051 0.050	5	7	6 12	Snyder Somerset	40 30(3700)	90 90	0.187 0.139	0.037 0.041	5 4	9 6		4 4	Buffalo Butte
0(1700)	90 90	0.136	0.050	5	7	6	Sullivan	50	90 90	0.139	0.041	4 5	7		4	Campbell
CS	90 90	0.108	0.055	5	7	6	Susquehanna	40	90	0.067	0.027	6	9		4/12	Charles Mix
D(1700)	90 90	0.174	0.050	4	6	6	Tioga	50	90	0.100	0.029	6	9		4/12	Clark
5(800)	90	0.140	0.052	5	7	6	Union	35	90	0.121	0.036	7	10		12	Clay
D(1700)	90	0.140	0.048	4	6	12	Venango	50	90	0.121	0.028	6	9		4	Codington
CS	90	0.145	0.048	4	6	6/12	Warren	50	90	0.079	0.028	5	7		4	Corson
25	90	0.124	0.050	5	7	12	Washington	20	90	0.195	0.048	4	7		4	Custer
CS	90	0.203	0.059	5	7	6	Wayne	40	90	0.164	0.035	6	9)	4	Da∨ison
CS	90	0.127	0.049	5	7	12	Westmoreland	50	90	0.103	0.027	5	8	3	4	Day
)(1700)	90	0.184	0.056	5	7	6	Wyoming	50	90	0.102	0.027	6	9		4	Deuel
0(1700)	90	0.201	0.054	6	9	6	York	50	90	0.088	0.029	5	7		4	Dewey
								40	90	0.168	0.036	6	9		4	Douglas
							RHODE	50	90	0.096	0.028	5	8		4	Edmunds
				-	-	-	ISLAND	15(5500)	90	0.207	0.049	4	7		4	Fall Ri∨er
30	111	0.227	0.059	5	8	6	Bristol	50	90	0.115	0.030	5	8		4	Faulk
30	110	0.226	0.059	5	8	6	Kent	50	90	0.108	0.027	6	8		4	Grant
30	116	0.211	0.056	6 5	8	6	Newport	40 30	90 90	0.166	0.037	6 5	9		4 4	Gregory
35 30	105 119	0.234	0.061 0.057	5 6	7 8	6 6	Providence	30 50	90 90	0.131	0.037 0.029	5 6	8 9		4	Haakon Hamlin
30	119	0.213	0.057	0	0	0	Washington	40	90 90	0.111 0.155	0.029	5	8		4	Hand
							SOUTH	40	90 90	0.135	0.034	6	9		4	Hanson
							CAROLINA	35	90	0.094	0.033	4	6		4	Harding
10	90	0.370	0.108	7	9	8	Abbeville	35	90	0.136	0.034	5	8		4	Hughes
10	94	0.438	0.126	8	10	8	Aiken	40	90	0.150	0.036	6	9)	4/12	Hutchinson
5	101	0.518	0.145	8	11	8	Allendale	40	90	0.145	0.034	5	8	3	4	Hyde
10	90	0.349	0.104	7	9	8	Anderson	25	90	0.140	0.038	5	8		4	Jackson
5	101	0.638	0.165	8	11	8	Bamberg	40	90	0.191	0.037	6	9		4	Jerauld
5	98	0.519	0.144	8	11	8	Barnwell	30	90	0.138	0.036	5	8		4	Jones
5	122	0.693	0.183	9	11	8	Beaufort	50	90	0.130	0.031	6	9		4	Kingsbury
5	121	2.540	0.706	9	11	8	Berkeley	40	90	0.121	0.031	6	9		4/12	Lake
10	98 420	0.686	0.175	8	10	8	Calhoun	25(4800)	90	0.157	0.044	4	6		4	Lawrence
5 10	129 90	1.428 0.339	0.351 0.107	9 6	11 9	8 8	Charleston Cherokee	40 35	90 90	0.106 0.155	0.034 0.036	6 5	9 9		12 4	Lincoln Lyman
10	90 90	0.339	0.107	7	9	8	Chester	40	90 90	0.133	0.030	6	9		4/12	McCook
10	95	0.433	0.130	7	10	8	Chesterfield	50	90	0.087	0.035	5	7		4	McPherson
10	104	1.134	0.287	8	11	8	Clarendon	50	90	0.094	0.026	5	8		4	Marshall
5	110	0.956	0.238	9	11	8	Colleton	30	90	0.150	0.042	4	7		4	Meade
10	98	0.636	0.175	8	10	8	Darlington	30	90	0.140	0.037	5	8		4	Mellette
10	102	0.530	0.155	8	11	8	Dillon	40	90	0.135	0.032	6	9)	4	Miner
5	110	1.056	0.261	9	11	8	Dorchester	40	90	0.111	0.034	6	9		12	Minnehaha
10	92	0.406	0.118	7	10	8	Edgefield	40	90	0.107	0.031	6	9		4/12	Moody
10	92	0.472	0.133	7	10	8	Fairfield	20	90	0.163	0.043	4	7		4	Pennington
10	105	0.734	0.200	8	11	8	Florence	CS	90	0.086	0.031	4	7		4	Perkins
5 10	126	0.951	0.248	9	11	8	Georgetown	50 50	90	0.114	0.031	5	8		4	Potter
10 10	90	0.353	0.106	7 7	9 10	8 8	Greenville	50 40	90 90	0.106	0.026	5	8 9		4 4	Roberts
10 5	90 105	0.384 0.573	0.112 0.156	9	10 11	8	Greenwood Hampton	40 20	90 90	0.182 0.190	0.036 0.045	6 5	9 7		4	Sanborn Shannon
5 10	119	0.667	0.156	9	11	8	Horry	50	90 90	0.190	0.045	5	8		4	Spink
0	111	0.547	0.165	9	11	8	Jasper	35	90	0.130	0.031	5	8		4	Stanley
10	95	0.542	0.155	7	10	8	Kershaw	40	90	0.130	0.033	5	8		4	Sully
10	92	0.415	0.124	7	10	8	Lancaster	25	90	0.165	0.035	5	8		4	Todd
10	90	0.377	0.112	7	9	8	Laurens	35	90	0.151	0.037	5	9		4	Tripp
10	97	0.607	0.166	8	10	8	Lee	40	90	0.125	0.035	6	9		12	Turner
10	94	0.521	0.142	8	10	8	Lexington	35	90	0.110	0.036	7	10		12	Union
10	90	0.369	0.109	7	10	8	McCormick	50	90	0.094	0.028	5	7		4	Walworth
10	108	0.691	0.191	8	11	8	Marion	35	90	0.145	0.038	6	10		12	Yankton
10	97	0.468	0.140	8	10	8	Marlboro	40	90	0.094	0.031	5	7		4	Ziebach
10	90	0.434	0.123	7	10	8	Newberry									
		0.050		7	~	40										TENNEGOEE
0(1800) 10	90 100	0.350 0.697	0.103 0.177	7 8	9 11	12 8	Oconee Orangeburg	10(1800)	90	0.467	0.114	6	9		12	TENNESSEE Anderson

IX. Climatological Data by County

5 W	S ₅	S1	11	12	TL 12	County Name	S	<u>w</u>	Ss	S1	11	12	TL 12	County Name
10 90 10 90	0.297 0.720	0.116 0.215	6 6	9 8	12 12	Bedford Benton	10(1800) 10	90 90	0.271 0.716	0.112 0.213	6 6	8 8	12 12	Smith Stewart
10(1800) 90	0.720	0.215	6	9	12	Bledsoe	15(2600)	90	0.379	0.213	6	8	12	Sullivan
10(1800) 90		0.119	6	9	12	Blount	10	90	0.317	0.126	õ	8	12	Sumner
10(1800) 90	0.494	0.117	7	9	12	Bradley	10	90	1.500	0.497	7	9	12	Tipton
10(1800) 90	0.407	0.109	6	8	12	Campbell	10	90	0.288	0.117	6	8	12	Trousdale
10(1800) 90	0.277	0.111	6	8	12	Cannon	15(2600)	90	0.398	0.104	6	9	12	Unicoi
10 90	0.877	0.248	7	9	12	Carroll	10(1800)	90*	0.490	0.114	6	8	12	Union
15(2600) 90		0.101	6	8	12	Carter	10(1800)	90	0.302	0.107	6	9	12	Van Buren
10 90 10 90	0.409 0.723	0.148 0.219	6 7	8 9	12 12	Cheatham Chester	10(1800) 15(2600)	90 90*	0.287 0.399	0.108 0.103	6 6	9 9	12 12	Warren Washington
10(1800) 90	0.462	0.219	6	8	12	Claiborne	10	90	0.399	0.103	7	9	12	Wayne
10(1800) 90	0.250	0.105	6	8	12	Clay	10	90	1.193	0.324	6	9	12	Weakley
10(1800) 90		0.114	6	9	12	Cocke	10(1800)	90	0.283	0.106	6	9	12	White
10(1800) 90	0.292	0.111	6	9	12	Coffee	10	90	0.344	0.132	6	8	12	Williamson
10 90	1.364	0.370	7	9	12	Crockett	10	90	0.295	0.119	6	8	12	Wilson
10(1800) 90	0.325	0.107	6	8	12	Cumberland								TEVAO
10 90 10 90	0.347 0.600	0.134 0.191	6 7	8 9	12 12	Da∨idson Decatur	5	90	0.111	0.049	9	11	12	TEXAS Anderson
10(1800) 90	0.000	0.191	6	8	12	De Kalb	5	90	0.220	0.049	6	8	6	Andrews
10 90	0.458	0.159	6	8	12	Dickson	5	91	0.220	0.051	10	12	12	Angelina
10 90	2.552	0.655	7	9	12	Dyer	ŏ	131	0.083	0.021	10	12	6/12	Aransas
10 90	0.893	0.253	7	9	12	Fayette	5	90	0.136	0.049	8	11	12	Archer
10(1800) 90	0.271	0.102	6	8	12	Fentress	15	90	0.173	0.045	6	9	6/12	Armstrong
10(1800) 90	0.311	0.111	6	9	12	Franklin	5	93	0.129	0.026	9	12	6/12	Atascosa
10 90	1.500	0.408	7	9	12	Gibson	5	97	0.088	0.035	10	12	12	Austin
10 90	0.323	0.125	6	9	12	Giles	15	90	0.110	0.035	6	8	6	Bailey
10(1800) 90 10(1800) 90	0.493 0.437	0.113 0.108	6 6	8 9	12 12	Grainger Greene	5 5	90 92	0.081 0.086	0.024 0.033	8 9	11 12	6/12 12	Bandera Bastrop
10(1800) 90	0.437	0.108	6	9	12	Grundy	5	92 90	0.086	0.033	8	12	12	Bastrop Baylor
10(1800) 90	0.490	0.113	6	8	12	Hamblen	ŏ	106	0.107	0.024	9	12	6/12	Bee
10(1800) 90	0.455	0.115	7	9	12	Hamilton	5	90	0.080	0.036	9	11	12	Bell
10(1800) 90	0.433	0.106	6	8	12	Hancock	5	90	0.109	0.029	9	12	6/12	Bexar
10 90	0.751	0.225	7	9	12	Hardeman	5	90	0.079	0.031	9	11	12	Blanco
10 90	0.530	0.176	7	9	12	Hardin	5	90	0.104	0.032	6	10	6	Borden
10(1800) 90	0.435	0.107	6	8	12	Hawkins	5	90	0.084	0.040	9	11	12	Bosque
10 90 10 90	1.193	0.329 0.219	7 7	9 9	12 12	Haywood	5 0	90	0.165	0.074	8	11	12	Bowie
10 90 10 90	0.722 0.886	0.219	6	8	12	Henderson Henry	5	120 90	0.081 0.091	0.033 0.039	10 10	13 12	12 12	Brazoria Brazos
10 90	0.447	0.157	6	8	12	Hickman	0(4500)	90	0.327	0.092	6	9	6	Brewster
10 90	0.608	0.189	6	8	12	Houston	15	90	0.131	0.041	6	10	12	Briscoe
10 90	0.592	0.187	6	8	12	Humphreys	0	106	0.078	0.018	9	12	6	Brooks
10(1800) 90	0.258	0.107	6	8	12	Jackson	5	90	0.073	0.034	8	11	12	Brown
10(1800) 90	0.513	0.116	6	9	12	Jefferson	5	90	0.089	0.037	9	12	12	Burleson
20(2500) 90		0.096	6	8	12	Johnson	5	90	0.074	0.033	9	11	12	Burnet
10(1800) 90	0.519	0.118	6	9	12	Knox	5	92	0.089	0.032	9	12	12	Caldwell
10 90 10 90	3.319 1.500	1.195 0.600	7 7	9 9	12 12	Lake Lauderdale	0 5	121 90	0.084 0.083	0.029 0.036	10 8	12 11	12 12	Calhoun Callahan
10 90	0.358	0.000	6	9	12	Lawrence	0	129	0.083	0.030	10	12	6	Cameron
10 90	0.436	0.150	6	9	12	Lewis	5	90	0.146	0.065	8	11	12	Camp
10 90	0.303	0.115	6	9	12	Lincoln	20	90	0.186	0.047	6	9	6/12	Carson
10(1800) 90	0.495	0.117	6	9	12	Loudon	5	90	0.158	0.070	8	11	12	Cass
10(1800) 90	0.495	0.118	7	9	12	McMinn	20	90	0.124	0.037	6	8	12	Castro
10 90	0.595	0.190	7	9	12	McNairy	0	119	0.090	0.038	11	13	12	Chambers
10 90	0.278	0.115	6	8	12	Macon	5	90	0.120	0.052	9	11	12	Cherokee
10 90 10(1800) 90	0.890 0.390	0.253 0.112	7 6	9 9	12 12	Madison	10 5	90 90	0.146 0.165	0.046 0.054	7 8	11 11	12 12	Childress
`	0.390		6	-		Marion Marshall	5 5(3200)	90 90		0.034	~		-	Clay Cochran
10 90 10 90	0.317	0.123	6	9	12 12	Marshall Maury	5(3200)	90 90	0.109	0.034	6 7	8 11	6 6/12	Cochran Coke
10(1800) 90	0.457	0.115	7	9	12	Meigs	5	90	0.076	0.034	8	11	12	Coleman
10(1800) 90	0.510	0.118	7	9	12	Monroe	5	90	0.138	0.055	9	11	12	Collin
10 90	0.528	0.174	6	8	12	Montgomery	15	90	0.176	0.049	7	10	12	Collingsworth
10 90	0.298	0.113	6	9	12	Moore	5	98	0.088	0.034	10	12	12	Colorado
10(1800) 90	0.371	0.108	6	8	12	Morgan	5	90	0.097	0.031	9	12	12	Comal
10 90	1.500	0.563	7	9	12	Obion	5	90	0.076	0.036	8	11	12	Comanche
10(1800) 90	0.256	0.104	6	8	12	Overton Borry	5 5	90	0.076	0.032	8	11	12	Concho
10 90 10(1800) 90	0.516 0.250	0.173 0.102	6 6	9 8	12 12	Perry Pickett	5	90 90	0.170 0.078	0.058 0.037	8 9	11 11	12 12	Cooke Coryell
10(1800) 90	0.250	0.102	7	9	12	Polk	10	90 90	0.078	0.037	9 7	11	12	Cottle
10(1800) 90	0.302	0.106	6	8	12	Putnam	5	90 90	0.121	0.043	6	9	6	Crane
10(1800) 90	0.204	0.100	6	9	12	Rhea	ő	90	0.078	0.026	7	10	6	Crockett
10(1800) 90	0.438	0.113	6	9	12	Roane	10	90	0.101	0.037	6	10	6/12	Crosby
Ì0 90	0.396	0.146	6	8	12	Robertson	0(3500)	90	0.344	0.105	5	7	6	Culberson
10 90	0.293	0.117	6	8	12	Rutherford	10(5000)	90	0.171	0.043	6	8	6	Dallam
10(1800) 90	0.329	0.104	6	8	12	Scott	5	90	0.115	0.050	9	11	12	Dallas
	0.379	0.111	6	9	12	Sequatchie	5	90	0.126	0.034	6	9	6	Dawson
10(1800) 90			~	~	40	O an A an	4.5		0 4 40	0.000	~	<u> </u>	~	Df0 ""
	0.523	0.118 0.379	6 7	9 10	12 12	Sevier Shelby	15 5	90 90	0.142 0.150	0.039 0.062	6 9	8 11	6 12	Deaf Smith Delta

										IVICIA	Metal Building Systems Manual				
S	W	S₅	S ₁	11	12	ΤL	County Name	S	W	S₅	S ₁	11	12	ΤL	County Name
5	90	0.136	0.053	8	11	12	Denton	5	90	0.073	0.034	8	11	12	Lampasas
5 10	100 90	0.102 0.101	0.031 0.038	9 7	12 10	12 12	De Witt Dickens	05	92 99	0.087 0.091	0.021 0.032	9 9	11 12	6 12	La Salle La∨aca
0	90 90	0.072	0.038	9	11	6	Dimmit	5	99 91	0.091	0.032	9	12	12	Lavaca
15	90	0.072	0.020	7	10	12	Donley	5	90	0.099	0.033	9	12	12	Leon
0	99	0.091	0.021	9	12	6	Duval	5	106	0.094	0.040	10	13	12	Liberty
5	90	0.084	0.038	8	11	12	Eastland	5	90	0.097	0.043	9	12	12	Limestone
5	90	0.194	0.038	6	9	6	Ector	15	90	0.148	0.046	7	10	12	Lipscomb
5	90	0.064	0.022	8	11	6	Edwards	0	100	0.111	0.024	9	12	6	Li∨e Oak
5	90	0.103	0.047	9	11	12	Ellis	5	90	0.071	0.031	8	11	12	Llano
0(3500)	90	0.332	0.107	4	6	6	El Paso	5	90	0.186	0.048	5	8	6	Loving
5 5	90 90	0.084 0.090	0.039 0.040	8 9	11 12	12 12	Erath Falls	15 5(3200)	90 90	0.103 0.106	0.034 0.033	6 6	9 9	6 6	Lubbock Lynn
5	90	0.090	0.040	8	11	12	Fannin	5	90	0.069	0.033	8	12	12	McCulloch
5	95	0.088	0.034	9	12	12	Fayette	5	90	0.087	0.040	9	11	12	McLennan
5	90	0.090	0.036	7	11	12	Fisher	ō	96	0.111	0.024	9	11	6	McMullen
15	90	0.109	0.038	6	10	6/12	Floyd	5	90	0.096	0.042	10	12	12	Madison
10	90	0.131	0.046	7	11	12	Foard	0	90	0.153	0.067	9	11	12	Marion
0	108	0.086	0.035	10	13	12	Fort Bend	5	90	0.129	0.032	6	9	6	Martin
5	90	0.147	0.064	8	11	12	Franklin	5	90	0.068	0.030	8	11	12	Mason
5 5	90 90	0.104 0.096	0.046 0.023	9 9	11 11	12 6	Freestone Frio	0	120 90	0.081 0.058	0.031 0.019	10 8	13 11	12 6	Matagorda Ma∨erick
5(3200)	90 90	0.098	0.023	6	8	6	Gaines	5	90 90	0.058	0.019	9	11	6/12	Medina
0	123	0.082	0.035	10	13	12	Galveston	5	90	0.068	0.020	8	11	6/12	Menard
5	90	0.099	0.033	6	10	6/12	Garza	5	90	0.158	0.035	6	9	6	Midland
5	90	0.075	0.030	8	11	12	Gillespie	5	90	0.088	0.038	9	12	12	Milam
5	90	0.110	0.030	6	10	6	Glasscock	5	90	0.072	0.034	8	11	12	Mills
0	106	0.103	0.029	9	12	6/12	Goliad	5	90	0.096	0.032	7	11	6/12	Mitchell
5	95	0.098	0.032	9	12	12	Gonzales	5	90	0.163	0.055	8	11	12	Montague
15	90	0.190	0.048	7	10	12	Gray	5	97	0.093	0.040	10	12	12	Montgomery
5 5	90	0.169	0.060	8	11	12	Grayson	15	90	0.172	0.043	6	9	6/12	Moore
5 5	90 92	0.143 0.091	0.062 0.039	9 10	11 12	12 12	Gregg Grimes	5 10	90 90	0.151 0.114	0.067 0.040	8 7	11 10	12 12	Morris Motley
5	93	0.103	0.033	9	12	12	Guadalupe	5	90	0.126	0.054	9	11	12	Nacogdoches
15	90	0.112	0.036	6	9	6/12	Hale	5	90	0.105	0.047	9	11	12	Navarro
15	90	0.163	0.047	7	10	12	Hall	5	97	0.124	0.051	10	12	12	Newton
5	90	0.077	0.037	8	11	12	Hamilton	5	90	0.090	0.035	7	11	12	Nolan
15	90	0.147	0.044	6	9	6/12	Hansford	0	116	0.085	0.020	10	12	6	Nueces
10	90	0.148	0.048	7	11	12	Hardeman	15	90	0.140	0.044	7	10	12	Ochiltree
5	105	0.104	0.044	10	13	12	Hardin	10(5000)	90	0.188	0.043	6	8	6	Oldham
0 5	105 90	0.088 0.143	0.037 0.072	10 9	13 11	12 12	Harris Harrison	0 5	112 90	0.105 0.098	0.044 0.043	11 8	13 11	12 12	Orange Palo Pinto
0(5000)	90	0.193	0.044	6	8	6	Hartley	5	90	0.030	0.043	9	11	12	Panola
5	90	0.096	0.039	7	11	12	Haskell	5	90	0.103	0.045	8	11	12	Parker
5	90	0.090	0.031	9	12	12	Hays	15	90	0.114	0.035	6	8	6	Parmer
20	90	0.161	0.048	7	10	12	Hemphill	5	90	0.160	0.048	6	9	6	Pecos
5	90	0.115	0.051	9	11	12	Henderson	5	95	0.103	0.045	10	12	12	Polk
ō	105	0.056	0.014	10	12	6	Hidalgo	15	90	0.176	0.043	6	9	6/12	Potter
5 15	90 90	0.092 0.108	0.043 0.034	9 6	11 8	12 6	Hill Hockley	0(4500) 5	90 90	0.328 0.132	0.096 0.057	5 9	8 11	6 12	Presidio Rains
5	90	0.093	0.034	8	11	12	Hood	20	90 90	0.152	0.037	6	9	6/12	Randall
5	90	0.142	0.061	9	11	12	Hopkins	5	90	0.095	0.029	7	10	6	Reagan
5	90	0.105	0.047	9	12	12	Houston	5	90	0.068	0.022	8	11	ő	Real
5	90	0.111	0.031	6	10	6	Howard	5	90	0.161	0.069	8	11	12	Red River
0(3500)	90	0.343	0.110	4	6	6	Hudspeth	5	90	0.174	0.050	5	8	6	Reeves
5	90	0.227	0.071	9	11	12	Hunt	0	117	0.092	0.022	10	12	6/12	Refugio
15	90	0.173	0.045	6	9	6/12	Hutchinson	20	90	0.177	0.048	7	10	12	Roberts
5 5	90 90	0.081 0.120	0.027 0.047	7 8	11 11	6 12	lrion Jack	5 5	90 90	0.093 0.127	0.040 0.053	9 9	12 11	12 12	Robertson Rockwall
5	90 112	0.120	0.047	8 10	12	12	Jack Jackson	5	90 90	0.127	0.033	9 7	11	12	Runnels
5	96	0.126	0.051	10	12	12	Jasper	5	90	0.000	0.058	, 9	11	12	Rusk
)(3500)	90	0.326	0.094	5	8	6	Jeff Davis	5	91	0.139	0.056	9	11	12	Sabine
0	119	0.100	0.042	11	13	12	Jefferson	5	90	0.139	0.057	9	11	12	San Augustin
0	98	0.077	0.018	9	12	6	Jim Hogg	5	96	0.099	0.043	10	12	12	San Jacinto
0	105	0.091	0.021	9	12	6	Jim Wells	0	118	0.091	0.022	10	12	6	San Patricio
5	90	0.094	0.044	9	11	12	Johnson	5	90	0.070	0.033	8	11	12	San Saba
5 5	90 97	0.088 0.134	0.037 0.030	7 9	11 12	12 6/12	Jones Karnes	05	90 90	0.071 0.095	0.025 0.034	7 7	11 11	6 6/12	Schleicher
5	97 90	0.134 0.117	0.030	9	12	12	Karnes Kaufman	5	90 90	0.095	0.034	8	11	12	Scurry Shackelford
5	90	0.087	0.031	9	11	12	Kendall	5	90	0.089	0.058	9	11	12	Shelby
õ	120	0.077	0.018	10	12	6	Kenedy	15	90	0.145	0.041	6	9	6/12	Sherman
5	90	0.095	0.037	7	10	12	Kent	5	90	0.129	0.056	9	11	12	Smith
5	90	0.074	0.027	8	11	6/12	Kerr	5	90	0.088	0.041	9	11	12	Somervell
5	90	0.066	0.024	8	11	6/12	Kimble	0	98	0.053	0.014	9	12	6	Starr
10	90	0.105	0.040	7	11	12	King	5	90	0.092	0.040	8	11	12	Stephens
0	90	0.062	0.021	8	11	12	Kinney	5	90	0.096	0.029	7	11	6	Sterling
0	118	0.084	0.020	10	12	6	Kleberg	5	90	0.094	0.038	7	11	12	Stonewall
5 0	90 90	0.110 0.162	0.042 0.066	7 8	11 11	12 12	Knox Lamar	0 15	90 90	0.068 0.126	0.024 0.038	8 6	11 9	6 6/12	Sutton Swisher

Metal Building Systems Manual

IX. Climatological Data by County

	144			14	10		Caumta - N		147		<u> </u>	14	10		Country No.
<u>5</u>	90	S ₅ 0.084	S 1 0.036	11	12 11	TL	County Name	S CS	90	S₅ 0.304	S1	11	12 6	 6	County Name
5	90 90	0.084	0.036	7 7	11	12 6	Taylor Terrell	CS	90 90*	0.304	0.086 0.072	4 4	6 7	6	Washington Windham
5(3200)	90 90	0.144	0.048	6	8	6	Terry	CS	90* 90*	0.236	0.072	4	6	6	Windsor
5	90	0.119	0.034	8	11	12	Throckmorton	03	90	0.200	0.000	4	0	0	VVITUSOI
5	90	0.102	0.042	8	11	12	Titus								VIRGINIA
5	90	0.080	0.000	7	11	6/12	Tom Green	15	114	0.106	0.043	8	11	8	Accomack
5	90	0.082	0.027	9	12	12	Travis	30(900)	90	0.250	0.065	6	9	12	Albemarle
5	90	0.106	0.046	10	12	12	Trinity	CS	90	0.225	0.072	6	8	12	Alleghany
5	97	0.114	0.047	10	12	12	Tyler	20	90	0.244	0.066	7	10	8/12	Amelia
5	90	0.142	0.062	9	11	12	Upshur	30(900)	90	0.235	0.069	6	9	12	Amherst
5	90	0.142	0.032	6	9	6	Upton	25	90	0.235	0.069	6	10	12	Appomattox
5	90	0.073	0.021	8	11	6	Uvalde	25	90	0.154	0.050	7	10	12	Arlington
Ő	90	0.061	0.021	8	11	6	Val Verde	cs	90	0.210	0.064	6	8	12	Augusta
5	90	0.122	0.054	9	11	12	Van Zandt	cs	90	0.197	0.065	6	8	12	Bath
Ő	110	0.093	0.030	10	12	12	Victoria	25	90	0.217	0.071	6	9	12	Bedford
5	93	0.096	0.042	10	12	12	Walker	25(2500)	90*	0.346	0.088	ĕ	8	12	Bland
5	97	0.089	0.037	10	12	12	Waller	CS	90	0.236	0.072	6	9	12	Botetourt
5	90	0.215	0.044	5	8	6	Ward	20	90	0.171	0.063	8	11	8	Brunswick
5	94	0.088	0.036	10	12	12	Washington	20(2500)	90	0.309	0.087	6	8	12	Buchanan
õ	91	0.067	0.000	9	11	6	Webb	20(2000)	90	0.275	0.069	7	10	12	Buckingham
õ	108	0.085	0.033	10	12	12	Wharton	25	90	0.215	0.069	6	9	12	Campbell
15	90	0.186	0.050	7	10	12	Wheeler	25	90	0.189	0.055	8	11	8	Caroline
5	90	0.166	0.054	8	11	12	Wichita	25(2500)	90	0.299	0.086	6	9	12	Carroll
10	90	0.154	0.050	8	11	12	Wilbarger	20(2000)	90	0.255	0.055	8	11	8	Charles City
0	90 121	0.154	0.050	10	12	6	Willacy	20	90 90	0.109	0.055	7	10	8/12	Charlotte
5	90	0.000	0.013	9	12	12	Williamson	30(900)	90 90	0.207	0.066	6	9	12	Charlottesvill
5	90 94	0.079	0.034	9	12	6/12	Wilson	20	90 90	0.203	0.060	8	9 11	8	Chesterfield
5 5	94 90	0.137	0.030	9 5	8	6/12	Winkler	CS	90 90	0.214	0.053	6	8	° 12	Clarke
5	90 90	0.255	0.048	8	0 11	12	Wise	CS	90 90	0.223	0.053	6	8	12	Covington
5	90 90	0.131	0.050	9	11	12	Wood	CS	90 90	0.223	0.009	6	9	12	Craig
5(3200)	90	0.134	0.035	6	8	6	Yoakum	30(900)	90	0.200	0.075	7	9	12	Culpeper
5	90	0.108	0.033	8	11	12	Young	25	90	0.192	0.068	7	10	12	Cumberland
0	90 94	0.059	0.044	9	11	6	Zapata	15(2600)	90	0.274	0.008	6	8	12	Dickenson
0	94 90		0.015	9	11	6		20	90 90	0.303	0.069	8	。 11	12	
U	90	0.073	0.020	9		0	Za∨ala	15	90 90	0.159	0.060	8	11	8	Dinwiddie Emporia
							UTAH	20	90	0.159	0.000	8	11	8	Essex
5(5000)	90	0.734	0.222	4	6	6	Beaver	20	90 90	0.154	0.051	о 7	10	8	Fairfax
CS	90 90	1.396	0.222	4	6	6/8	Box Elder	30(900)	90 90	0.150	0.051	7	9	。 8/12	Fauquier
CS	90 90	0.927	0.328	4	6	6/8	Cache	25(2500)	90 90	0.171	0.054	6	9	12	Floyd
CS	90 90	0.927	0.328	4	6	8		25(2500)	90 90	0.275	0.067	7	9 10	12	
20(6600)	90 90	0.473	0.155	4	6	6	Carbon	25	90 90	0.283	0.067	6	9	12	Flu∨anna Franklin
CS	90 90	1.386	0.100	4	6	6/8	Daggett Davis	CS	90 90	0.234	0.078	5	8	8	Frederick
	90 90				6				90 90	0.339	0.054	6	8	。 12	
5(6000)		0.345	0.114	4		6/8	Duchesne	25(2500)							Giles
5(4500)	90	0.646	0.205 0.251	4 4	6 6	4/6/8	Emery	15	97 90	0.133 0.266	0.049 0.065	8 7	11 10	8 8/12	Gloucester
CS	90	0.767	0.251	4	6	4/6 4/8	Garfield	25	90* 90*	0.200	0.089	6	8	12	Goochland
5(4500)	90	0.212					Grand	20(2500)							Grayson
CS	90	1.138	0.400	4	6	6	Iron	30(900)	90	0.222	0.061	8	9	12	Greene
0(4800)	90	1.065	0.397	4	6	6/8	Juab	15	90	0.160	0.060	8	11	8	Greensville
CS	90	0.443	0.152	4	6	6/8	Kane	20	90	0.188	0.070	7	10	8/12	Halifax
5(5000)	90	0.725	0.214	4	6	6/8	Millard	20	90	0.207	0.058	8	11	8	Hanover
CS	90	0.810	0.302	4	6	6/8	Morgan	CS	90	0.194	0.060	8	9	12	Harrisonburg
CS	90	0.734	0.219	4	6	6	Piute	20	90	0.225	0.058	8	11	8	Henrico
CS	90	0.719	0.255	4	6	6	Rich	20	90	0.225	0.078	6	9	8/12	Henry
CS	90	1.711	0.693	4	6	8	Salt Lake	CS 10	90	0.175	0.061	6	8	12	Highland
CS	90 90	0.197	0.055	4 4	6 6	4/6	San Juan	10	96 02	0.133	0.052	8	11	8	Isle of Wight
CS	90 90	0.700	0.225	4	6 6	6/8 6	Sanpete	15	93	0.160	0.055	8	11	8	James City
5(4500)		0.820	0.240	4			Sevier	20	90	0.158	0.052	8	11	8	King and
CS CS	90	0.570	0.212	4	6	6/8	Summit	25	00	0.469	0.050	•	44	0	Queen King Coorgo
CS 0(6000)	90	0.784	0.292	4	6	6/8	Tooele	25	90	0.166	0.053	8	11	8	King George
	90	0.339	0.089	4	6	4/6/8	Uintah	20	90 07	0.169	0.054	8	11	8	King William
CS CS	90	1.250	0.529	4	6	8	Utah Macatah	20	97	0.133	0.048	8	11	8	Lancaster
CS	90	0.647	0.234	4 4	6	8	Wasatch	15(2600)	90	0.390	0.102	6	8	12	Lee
	90	0.504	0.161		6	6/8	Washington	CS 20(000)	90	0.213	0.067	6	9	12	Lexington
5(4500)	90	0.657	0.186	4	6	4/6	Wayne	30(900)	90	0.160	0.051	6	9	8/12	Loudoun
CS	90	1.381	0.576	4	6	6/8	Weber	25	90	0.250	0.063	7	10	8/12	Louisa
							VEDMONT	20	90	0.196	0.066	7	10	8/12	Lunenburg
40	00	0.040	0.007		~	~	VERMONT	30(900)	90	0.208	0.060	6	9	12	Madison
40	90	0.316	0.087	4	6	6	Addison	30(900)	90	0.161	0.052	8	11	8/12	Manassas
CS	90*	0.229	0.070	4	7	6	Bennington	30(900)	90	0.161	0.052	8	11	8/12	Manassas Pa
0(1000)	90*	0.303	0.086	4	6	6	Caledonia	20	90	0.219	0.077	6	9	12	Martinsville
40	90	0.381	0.097	4	6	6	Chittenden	15	103	0.124	0.048	8	11	8	Mathews
CS	90*	0.302	0.085	4	6	6	Essex	20	90	0.178	0.067	7	10	8	Mecklenburg
50(900)	90	0.420	0.102	4	6	6	Franklin	20	96	0.138	0.050	8	11	8	Middlesex
40	90	0.470	0.107	4	6	6	Grand Isle	25(2500)	90	0.306	0.082	6	9	12	Montgomery
CS	90	0.317	0.090	4	6	6	Lamoille	30(900)	90	0.255	0.068	6	9	12	Nelson
	90*	0.301	0.084	4	6	6	Orange	20	90	0.165	0.054	8	11	8	New Kent
CS					~	-		1 10	449	0.400	0.046	0	44	8	N 1 11 1
CS CS 50(900)	90 90	0.295 0.274	0.088 0.079	4 4	6 6	6 6	Orleans Rutland	10 20	113 95	0.109 0.134	0.045 0.048	8 8	11 11	8	Northampton Northumberlar

	D	K. Climat	ological	Dat	a by C	ounty				Meta	l Buildir	ıg Sy	stems	s Manua	al
S	W	S,	S ₁	11	12	ΤL	County Name	S	W	Ss	S ₁	11	12	ΤL	County Name
20	90	0.214	0.065	7	10	8/12	Nottoway	20(2500)	90	0.211	0.072	6	8	12	Boone
30(900)	90 90	0.223	0.061 0.057	7 6	9 8	12 12	Orange	CS 25	90 90	0.158 0.122	0.061 0.050	5 5	8 7	12 12	Braxton
CS 20(2500)	90 90	0.184 0.245	0.057	6	9	12	Page Patrick	25 20	90 90	0.122	0.050	ວ 5	8	12	Brooke Cabell
20(2500) 20	90 90	0.245	0.073	6	9	8/12	Pittsylvania	20	90	0.149	0.070	5	7	12	Calhoun
25	90	0.264	0.066	7	10	8/12	Powhatan	25(2500)	90	0.173	0.064	5	8	12	Clay
25	90	0.245	0.068	7	10	8/12	Prince Edward	20	90	0.136	0.055	5	7	12	Doddridge
20	90	0.181	0.057	8	11	8	Prince George	20(2500)	90	0.217	0.070	6	8	12	Fayette
25	90	0.175	0.052	7	10	8/12	Prince William	20	90	0.147	0.058	5	7	12	Gilmer
25(2500)	90	0.336	0.086	6	8	12	Pulaski	CS	90	0.158	0.055	5	8	12	Grant
30(900)	90	0.179	0.056	6	9	12	Rappahannock	CS	90	0.250	0.073	6	8	12	Greenbrier
20	90	0.148	0.050	8	11	8	Richmond	CS	90	0.157	0.053	5	8	12	Hampshire
CS CS	90 90	0.265 0.225	0.068 0.067	6 6	9 9	12 12	Roanoke Rockbridge	25 CS	90 90	0.124 0.159	0.049 0.055	5 5	7 8	12 12	Hancock Hardy
CS	90	0.225	0.064	6	8	12	Rockingham	CS	90	0.138	0.055	5	7	12	Harrison
15(2600)	90	0.348	0.093	6	8	12	Russell	25	90	0.162	0.063	5	7	12	Jackson
15(2600)	90	0.373	0.099	6	8	12	Scott	CS	90	0.165	0.052	6	8	12	Jefferson
cs	90	0.173	0.056	6	8	12	Shenandoah	20(2500)	90	0.187	0.068	5	8	12	Kanawha
20(2500)	90*	0.339	0.091	6	8	12	Smyth	CS	90	0.143	0.057	5	7	12	Lewis
15	92	0.143	0.055	8	11	8	Southampton	20	90	0.194	0.070	5	8	12	Lincoln
25	90	0.197	0.056	7	10	8/12	Spotsyl∨ania	20(2500)	90	0.233	0.076	6	8	12	Logan
25	90	0.170	0.053	7	10	8/12	Stafford	20(2500)	90	0.318	0.084	6 5	8	12	McDowell
15 15	92 90	0.145 0.160	0.052 0.057	8 8	11 11	8 8	Surry Sussex	CS 20	90 90	0.135 0.123	0.053 0.051	5 5	7 7	12 12	Marion Marshall
20(2500)	90* 90*	0.343	0.057	6	8	8 12	Tazewell	20	90 90	0.123	0.051	5 5	7	12	Mason
20(2300) CS	90 90	0.343	0.055	6	8	12	Warren	20(2500)	90	0.341	0.005	6	8	12	Mercer
15(2600)	90*	0.358	0.095	6	8	12	Washington	20(2000) CS	90	0.149	0.052	5	8	12	Mineral
20	90	0.150	0.051	8	11	8	Westmoreland	20(2500)	90	0.243	0.079	6	8	12	Mingo
20	98	0.140	0.051	8	11	8	Williamsburg	ČS (90	0.134	0.052	5	7	12	Monongalia
CS	90	0.167	0.054	6	8	12	Winchester	25(2500)	90	0.295	0.078	6	8	12	Monroe
15(2600)	90	0.323	0.092	6	8	12	Wise	CS	90	0.167	0.052	5	8	12	Morgan
25(2500)	90*	0.337	0.089	6	8	12	Wythe	25(2500)	90	0.188	0.066	5	8	12	Nicholas
15	96	0.130	0.049	8	11	8	York	20	90	0.122	0.051	5	7	12	Ohio
							MACHINICTON	CS	90	0.168	0.058	5	8	12	Pendelton
20(1900)	85	0.337	0.109	4	6	16	WASHINGTON Adams	20 CS	90 90	0.133 0.186	0.056 0.064	5 5	7 8	12 12	Pleasants Pocahontas
20(1900) CS	85	0.337	0.096	4	6	6/16	Asotin	CS	90 90	0.138	0.064	5	° 7	12	Preston
15(1500)	85	0.536	0.161	4	6	16	Benton	20	90	0.178	0.067	5	8	12	Putnam
CS	85	0.505	0.172	4	6	16	Chelan	20(2500)	90	0.266	0.076	6	8	12	Raleigh
CS	85*	1.119	0.468	4	6	16	Clallam	`cs ´	90	0.149	0.056	5	8	12	Randolph
CS	85	0.911	0.323	4	6	16	Clark	20	90	0.138	0.057	5	7	12	Ritchie
CS	85	0.385	0.115	4	6	16	Columbia	25	90	0.156	0.061	5	7	12	Roane
15(400)	85*	0.862	0.342	4	6	16	Cowlitz	20(2500)	90	0.291	0.078	6	8	12	Summers
CS	85	0.481	0.161	4	6	16	Douglas	CS	90	0.139	0.054	5	7	12	Taylor
CS 10(1200)	85 85	0.330 0.443	0.108 0.137	4 4	6 6	16 16	Ferry Franklin	CS 20	90 90	0.146 0.131	0.055 0.054	5 5	8 7	12 12	Tucker Tyler
CS	85	0.329	0.102	4	6	16	Garfield	CS 20	90	0.145	0.054	5	7	12	Upshur
cs	85	0.458	0.144	4	6	16	Grant	20	90	0.199	0.072	5	8	12	Wayne
ĊS	85*	1.313	0.600	4	6	16	Grays Harbor	CS	90	0.170	0.062	5	8	12	Webster
15(400)	85	1.305	0.483	4	6	6	Island	20	90	0.127	0.053	5	7	12	Wetzel
CS	85*	1.344	0.490	4	6	16	Jefferson	25	90	0.147	0.059	5	7	12	Wirt
CS	85	1.447	0.489	4	6	6	King	20	90	0.141	0.058	5	7	12	Wood
15(400)	85	1.527	0.541	4	6	6	Kitsap	20(2500)	90	0.296	0.081	6	8	12	Wyoming
CS	85	0.540	0.184	4	6	6/16	Kittitas								
CS 15(400)	85 85	0.459 1.012	0.163 0.396	4 4	6 6	16 6/16	Klickitat Lewis	40	90	0.073	0.035	5	7	12	WISCONSIN Adams
CS	85	0.350	0.109	4	6	16	Lincoln	60	90	0.057	0.035	5	6	4/12	Ashland
20(200)	85	1.209	0.490	4	6	6/16	Mason	60	90	0.054	0.018	5	7	12	Barron
CS	85	0.527	0.155	4	6	16	Okanogan	60	90	0.057	0.018	5	6	4	Bayfield
CS	85*	1.366	0.650	4	6	16	Pacific	40	90	0.064	0.032	5	7	12	Brown
CS	85	0.383	0.109	4	6	16	Pend Oreille	50	90	0.056	0.030	6	8	12	Buffalo
15(400)	85	1.210	0.418	4	6	6	Pierce	60	90	0.058	0.021	5	7	4/12	Burnett
20(200)	85	1.076	0.381	4	6	16	San Juan	35	90	0.074	0.035	5	7	12	Calumet
CS	85 05	1.081	0.369	4	6	6/16 16	Skagit	50 50	90	0.055	0.028	5	7 7	12	Chippewa
CS 15(400)	85 85	0.609 1.168	0.224 0.409	4 4	6 6	16 6/16	Skamania Snohomish	50 30	90 90	0.059 0.087	0.030 0.039	5 5	7	12 12	Clark Columbia
15(400) CS	85	0.402	0.409	4	6	16	Spokane	30	90 90	0.087	0.039	6	8	12	Crawford
CS	85	0.402	0.099	4	6	16	Stevens	30	90	0.074	0.040	5	7	12	Dane
15(400)	85	1.157	0.434	4	6	6/16	Thurston	30	90	0.096	0.041	5	7	12	Dodge
CS	85*	0.981	0.485	4	6	16	Wahkiakum	50	90	0.059	0.030	5	6	12	Door
20(1900)	85	0.461	0.131	4	6	16	Walla Walla	60	90	0.055	0.017	5	7	4	Douglas
CS	85	0.981	0.328	4	6	16	Whatcom	50	90	0.055	0.028	6	8	12	Dunn
CS	85	0.311	0.098	4	6	16	Whitman	50	90	0.055	0.028	6	7	12	Eau Claire
CS	85	0.520	0.175	4	6	16	Yakima	60	90	0.058	0.025	5	6	12	Florence
								35	90	0.082	0.037	5	7	12	Fond du Lac
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Metal Building Systems Manual

IX. Climatological Data by County

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