Navigating cli-MATE



	Climate Center	
Station Selectors		
General Info	o Use "Select Daily Station" or "Select Hourly Station" in the top bar to change stations	
	 Select stations by station ID, climate division, or by State/County 	
	Nationwide GIS map selector	
	 Select daily stations by network 	
	 GIS map searchable by address, city or zip code 	
	 Includes overlay layers including climate divisions, and crop reporting districts 	
	 More Info tab includes a station's period of record and available data 	
	Daily-Observed Data	
Daily Data (Daily-Observed Data → Daily)		
Between Two Dates	o Raw historical station data	
	o Plot data or download in a csv file	
Degree Days	o Full suite of degree day data, including Heating Degree Days, Cooling Degree Days,	
	Growing Degree Days, Modified Growing Degree Days, Stress Degree Days and	
	Freezing Degree Days.	
	 Customizable to include non-standard degree day bases and start dates. 	
	o Tabular data and data plots available	
This Date In History	o See all data available for one day or a holiday in a sortable table	
Almanac for a Day	Average and record highs & lows	
	o Daily 1981-2010 NCDC Climate Normals	
Threshold Search	o Find all dates a certain temperature, precipitation or snowfall threshold criterion is	
	met for one or two criteria	
	o Gives a chronological list of dates, monthly counts, or a runs of Days meeting the	
	threshold	
Multi-Day Extremes	o Find extreme periods of temperature, snowfall and precipitation	
Ranking	o Search the ranking of temperature precipitation and snowfall data in ascending or	
	descending order for an individual date.	
Keetch-Byram	o Get the KDBI for an individual days in a sortable table	
Drought Index (KBDI)	o Graphs also available	
Monthly Data (Daily-Observed Data → Monthly)		
Between Specific	o Get monthly station data for multiple variables in a sortable table	
Months		
Monthly NCDC	o Available in either graph or tabular form	
Normals		
Ranking	o Similar to daily Ranking	
	Allows user to determine how much missing data is permissible	
Thermograph	o See high & low temperature compared to normal values as well as extremes	
Frequency	o Find the frequency certain temperature, precipitation and snowfall amounts occur	
Distribution	during certain months or during the calendar, water or snowfall years.	
Seasonal Data (Daily-Observed Data → Seasonal)		
Degree Days, Ranking	These products are also under the Seasonal Category	
& Thermograph		
Freeze Probabilities	o Probabilities of later spring freeze or earlier fall freeze at various temperatures	
Seasonal Statistics	Historical first and last dates of growing, snow and frost seasons in a sortable table	
	o Length of each season	
Annual Data (Daily-Observed Data → Annual)		
Summary By Month	o Monthly data sorted by year	
Ranking	o Similar to monthly and daily Ranking	
	Allows user to determine how much missing data is permissible	
Annual Data Between	o Sortable table of data for calendar, water and snow years	
Specific Years	o Data plots	

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Multi-Station Data (Daily Observed Data→Multi-Station)		
Summary	O Summary of Precipitation, Snowfall and Mean Temperature compared to normal	
	for stations in a Climate Division or State	
Temperature	 Average of maximum, minimum and mean temperatures for a timeframe, 	
	including the highest and lowest maximum for the selected period	
Precipitation	 Amount of precipitation and snowfall during a period, including departures from 	
	normal and daily maximums	
County Data (Daily-Observed Data -> County Data)		
General Info	o Data from all stations in a county for one climate variable	
	o Select individual station networks	
Hourly-Observed Data		
Hourly Data Lister	o Raw hourly station data for a station's period of record	
Wind Rose	Customizable wind rose plots for any period for a station	
	o Can be filtered by elements such as precipitation and barometric pressure	
Daily Averaged Hourly	o Average values of temperature, dew point, humidity, pressure, wind, and daily	
Data	precipitation from the hourly station	
METAR-Raw or	o Data available from 2007-Present	
Decoded	o Download up to 1 month of raw or 1 day of decoded data at a time	
CRN Data	o Data from sites nationwide	
	o Raw hourly data	
	Daily & monthly temperature and precipitation summaries	
State & Climate Division Data		
General Info	o Based off of the nClimDiv product from NCDC	
Snapshot	Monthly climate division data for each state for a month	
Monthly by Year	o All climate division monthly data for a specific variable for the period selected.	
Chronological Listing	o Gives temperature and precipitation data and departures from normal	
Ranked Listing	o Similar to ranking tool for stations	
Estimated Between	o Estimates temperature, precipitation and degree days for states in the Midwest only.	
Two Dates		
Preliminary Average	 Available for Midwest states for the previous month 	
Precip and		
Temperature		
Maps of Data		
MRCC Gridded	o Similar to the maps found in weekly and monthly reports on the Midwest Climate	
Data→Specific period	Watch of NWS COOP data	
	o Plot actual values, departure from mean and percent of mean for a period	
	o Domains include RCC, RFC, NIFC & NWS regions, states, and NWS CWA's	
MRCC Gridded Data	Mapped averages of precipitation, temperature and snowfall	
→ Long-Term Average		
Maps		
Interpolated Station	Selectable by individual station network(s)	
Data	Higher resolution than Specific Period Maps, but slower load times	
	Charts and Graphs	
General Info	o Convenient menu for all cli-MATE products that have charts or graphs available	

For more information or questions about cli-MATE, please call 765-494-6574 or email mrcc@purdue.edu

cli-MATE: http://mrcc.purdue.edu/CLIMATE

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