

*Taylor*  
**BAROMETERS**

**Instructions for Home  
Weather Forecasting**

## The Barometer . . .



Clocks tell time and guide your daily activities.

A barometer foretells weather — knowledge often of equal importance in planning daily tasks. Weather has a

universal feature of interest to all—protection against discomfort, disappointment, or even disaster.

### IN THE HOME:

Protection of health and comfort; knowing the pending weather you can dress for it.

Planning your work; by referring to your handy Taylor Barometer i.e. you will know before hanging out your wash whether it will rain or remain clear.

Good weather assurance for those outdoor activities.

### TO THE BUSINESSMAN:

Protect shipments, schedule outside jobs, make emergency service preparations, etc.

### TO THE FARMER:

For crop protection and time for harvesting.

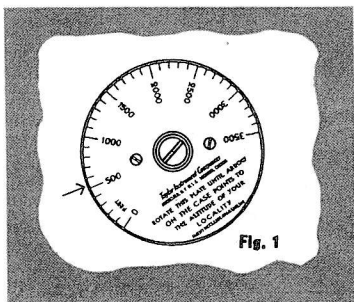
*By observing the few following instructions, you can readily make local weather forecasts with your Taylor weather instrument.*

1. **Barometer should be installed indoors.** They should never be exposed to the direct rays of the sun nor placed near any source of heat.

*Taylor* INSTR

2. You must adjust the instrument for the altitude above sea level at which it is to be used before you can make correct forecast readings.

Taylor Baroguides and Stormoguides have a back plate that is graduated from 0-3500 ft. or 3500-7000 ft. Turn this plate until the correct



elevation is opposite the arrow engraved on the case (example shows setting for 500 ft.). Now the instrument is adjusted for altitude and will give equivalent sea level readings.

**To adjust brass case barometers** first obtain the sea level pressure reading at the time from your local weather bureau. Remove the glass and the pointer. Reset the pointer to the reading obtained, making final fine adjustment by means of the small screw on back of instrument.

Each 90 ft. of elevation above sea level has a lower pressure difference of approximately .10 inches. Elevation of many cities is listed on the inside pages of this folder.

## Taking a Reading . . .

*Figures on the Dial*—"28," "29," "30," and "31" represent inches of mercury; the standard means of expressing atmospheric pressure. Study the dial on your instrument carefully so you can easily and quickly take accurate readings.

*Weather Words*—The words "Rain," "Change" and "Fair" on the dials of barometers are simply relative. The trend of change in pressure is the key to coming weather. Use the forecast table inside.

*Indicating Hand*—is the one closest to the dial which responds readily to any change in atmospheric pressure.

*Set Hand*—is directly over the indicating hand. A few hours after setting you can note any change in pressure; a rise indicated by movement of the indicating hand to the right and a fall by movement to the left.

### *Remember...*

- 1st.** Adjust your barometer for altitude.
- 2nd.** Note if barometer is rising or falling.
- 3rd.** Use forecasting chart inside this folder.
- 4th.** Barometers indicate *coming* not present weather conditions.
- 5th.** Barometers should be read and set at least twice every 12 hours to give continuity to your forecasting.

**RACY FIRST!**

# Taylor BAROMETERS

**BAROGUIDES**—Taylor Baroguides are quality barometers moderately priced and attractively cased for home use. All have set hands to determine whether atmospheric pressure has risen or fallen since last setting. Each model has the Taylor altitude adjusting back plate sets quickly and easily for any altitude from 0-3500 ft. or 3500-7000 ft.

**STORMOGUIDES**—You can read the weather forecast right from the dial of a Taylor Stormoguide. This reliable weather forecasting dial is the result of years of research. To adjust for Altitude, just turn back plate to height of local area above sea level. Several Stormoguide models have the exclusive Taylor signal device which automatically indicates whether pressure is rising or falling. Eye-catching case designs make any of these instruments a welcome decorative addition to any home.

**BRASS CASE**—For educational, marine, laboratory, and industrial use these graine brass case instruments with silvered metal 5 dials are available. Several models have temperature compensated movements. Instruments with dials graduated in inches and millimeters or inches and millibars can be supplied on request.

**CYCLO-STORMOGRAPH (Recording Barometer)**—A Taylor "Cyclo-Stormograph" is the ultimate in barometric pressure instrument. It is the one instrument that makes a complete and continuous record of the extent and duration, as well as the exact time each change in barometric pressure occurred. Correlation and analysis of these continuous written records make possible the most accurate weather forecasts.

## Weather Series for the Amateur

By P. R. JAMESON, F. R. Met. Soc.

"Practical Hints for Amateur Weather Forecasters." 32 pages, illustrated, of information on the care and exposure of barometers.

"Humidity, Its Effect on Our Health and Comfort." 24 pages, illustrated, on matters concerning the necessity of correcting present-day inside moisture conditions, which are dangerous to health and deprive us of ordinary comfort.

"The Mountains of Cloudland and Rainfall." 24 pages, illustrated with different types of clouds and ancient and modern rain gauges.

"The Thermometer and Its Family Tree." 24 pages, illustrated with thermometers from the time of their invention to the present day. The history of the birth and development of this interesting instrument is popularly dealt with and the manufacture of thermometers is described in plain language, including the manufacture of glass from which they are made.

"The Barometer as the Foot Rule of the Air." 24 pages, illustrated. Describing invention of the barometer and its development to its present status. The air, density and weight simply described. Information as to the correct methods of using barometers for measuring heights and corrections necessary for absolute readings and use of the vernier.

"The Compass, the Signpost of the World." 24 pages, illustrated. History of the compass, its invention and use is clearly given. A map, giving declination of the compass for all parts of the United States is also included.

**15 cents each postpaid, stamps or silver.**

"Weather." A new volume of 144 pages of text fully illustrated. Bound in Fabrikoid, embossed in gold. Contains Practical Hints to Amateur Weather Forecasters—The Barometer as the Foot-Rule of the Air—The Thermometer and its Family Tree—Humidity and its Effect on Health and Comfort—The Mountains of Cloudland and Rainfall—The Compass, Sign Post of the World. "Weather" deserves a place in your library.

Sent anywhere, postpaid, on receipt of \$1.00.

*Taylor Instrument Companies*

ROCHESTER 1, N. Y.

LIST OF CITIES WITH  
OFFICIAL ALTITUDES

STATIONS	Feet Above Sea Level	STATIONS	Feet Above Sea Level
Akron, Ohio . . .	956	Louisville, Ky. . .	454
Albany, N. Y. . .	22	Manchester, N. H. . .	210
Allentown, Pa. . .	304	Memphis, Tenn. . .	238
Ashland, Ky. . .	511	Miami, Fla. . . . .	15
Atlanta, Ga. . . .	1105	Milwaukee, Wis. . .	609
Atlantic City, N. J. . .	10	Minneapolis, Minn. . .	826
Augusta, Ga. . . .	141	Mobile, Ala. . . . .	52
Baltimore, Md. . .	81	Montgomery, Ala. . .	191
Bangor, Maine . . .	21	Nashville, Tenn. . .	498
Bay City, Mich. . .	593	Newark, N. J. . . . .	43
Binghamton, N. Y. . .	865	New Haven, Conn. . .	21
Birmingham, Ala. . .	598	New London, Conn. . .	27
Boise, Idaho . . . .	2717	New Orleans, La. . . .	5
Boston, Mass. . . .	45	New York, N. Y. . . .	35
Buffalo, N. Y. . . .	590	Niagara Falls, N. Y. . .	578
Burlington, Vt. . . .	190	Norfolk, Va. . . . .	38
Bridgeport, Conn. . .	12	Oakland, Calif. . . . .	18
Cambridge, Mass. . .	48	Omaha, Nebr. . . . .	1040
Camden, N. J. . . .	24	Paterson, N. J. . . . .	117
Charleston, S. C. . .	13	Peoria, Ill. . . . . .	474
Charlotte, N. C. . .	734	Philadelphia, Pa. . . .	150
Chicago, Ill. . . . .	604	Phoenix, Ariz. . . . .	1011
Cleveland, Ohio . . .	634	Pittsburgh, Pa. . . . .	742
Colorado Springs, Colo. . . . .	6012	Portland, Oreg. . . . .	69
Columbus, Ga. . . . .	261	Portland, Maine . . . .	34
Columbus, Ohio . . .	759	Providence, R. I. . . .	43
Council Bluffs, Iowa . .	989	Pueblo, Colo. . . . .	4668
Dallas, Texas . . . .	437	Racine, Wis. . . . . .	619
Davenport, Iowa . . .	571	Reno, Nev. . . . . . .	4487
Dayton, Ohio . . . .	743	Richmond, Va. . . . .	84
Denver, Colo. . . . .	5227	Rochester, N. Y. . . .	509
Des Moines, Iowa . . .	817	Saginaw, Mich. . . . .	591
Detroit, Mich. . . . .	594	St. Louis, Mo. . . . .	0000
Dubuque, Iowa . . . .	626	St. Paul, Minn. . . . .	754
Duluth, Minn. . . . .	626	St. Petersburg, Fla. . .	20
Elizabeth, N. J. . . .	28	Salt Lake City, Utah . .	285
Erie, Pa. . . . . . .	709	Sacramento, Calif. . . .	30
Evansville, Ind. . . .	452	San Antonio, Tex. . . .	657
Flint, Mich. . . . . .	716	San Francisco, Calif. . .	50
Fort Smith, Ark. . . .	639	Savannah, Ga. . . . .	42
Fort Wayne, Ind. . . .	780	Scranton, Pa. . . . . .	757
Fort Worth, Tex. . . .	588	Seattle, Wash. . . . .	51
		Shreveport, La. . . . .	217

Grand Rapids, Mich. . . . .	628	South Bend, Ind. . . . .	718
Great Falls, Mont. . . . .	3309	Spokane, Wash. . . . .	1905
Harrisburg, Pa. . . . .	355	Springfield, Mass. . . . .	101
Hartford, Conn. . . . .	36	Tacoma, Wash. . . . .	87
Houston, Tex. . . . .	48	Tampa, Fla. . . . .	24
Huntington, W. Va. . . . .	565	Toledo, Ohio . . . . .	594
Indianapolis, Ind. . . . .	749	Topeka, Kans. . . . .	909
Jackson, Miss. . . . .	286	Trenton, N. J. . . . .	42
Jacksonville, Fla. . . . .	25	Tucson, Ariz. . . . .	2382
Jersey City, N. J. . . . .	44	Tulsa, Okla. . . . .	700
Kansas City, Mo. . . . .	768	Utica, N. Y. . . . .	448
Knoxville, Tenn. . . . .	895	Washington, D. C. . . . .	100
Lansing, Mich. . . . .	842	Waterbury, Conn. . . . .	280
Lexington, Ky. . . . .	966	Wichita, Kans. . . . .	1285
Lincoln, Nebr. . . . .	1169	Wilmington, N. C. . . . .	52
Little Rock, Ark. . . . .	286	Youngstown, Ohio . . . . .	832
Los Angeles, Calif. . . . .	292	Zanesville, Ohio . . . . .	678

### ALTITUDES OF FORTY CANADIAN CITIES

#### *At the Main Railway Station*

STATIONS	Feet Above Sea Level	STATIONS	Feet Above Sea Level
Brandon, Man. . . . .	1204	Ottawa, Ont. . . . .	200
Calgary, Alta. . . . .	3439	Peterboro, Ont. . . . .	632
Campbellton, N. B. . . . .	42	Prince Albert, Sask. . . . .	1414
Charlottetown, P.E.I. . . . .	8	Quebec, P. Q. . . . .	20
Dartmouth, N. S. . . . .	14	Regina, Sask. . . . .	1896
Dauphin, Man. . . . .	968	St. Catharines, Ont. . . . .	350
Edmonton, Alta. . . . .	2183	St. John, N. B. . . . .	21
Fort William, Ont. . . . .	617	Saskatoon, Sask. . . . .	1596
Fredericton, N. B. . . . .	32	Shawinigan Falls, Que. . . . .	300
Glace Bay, N. S. . . . .	72	Sherbrooke, Que. . . . .	592
Halifax, N. S. . . . .	59	Sydney, N. S. . . . .	10
Hamilton, Ont. . . . .	300	Timmins, Ont. . . . .	1030
Kamloops, B.C. . . . .	1150	Toronto, Ont. . . . .	250
Lethbridge, Alta. . . . .	2983	Three Rivers, Que. . . . .	51
London, Ont. . . . .	804	Truro, N. S. . . . .	59
Medicine Hat, Alta. . . . .	2181	Vancouver, B. C. . . . .	13
Moncton, N. B. . . . .	50	Victoria, B. C. . . . .	1
Montreal, Que. . . . .	110	Windsor, Ont. . . . .	580
Moose Jaw, Sask. . . . .	1778	Winnipeg, Man. . . . .	727
New Glasgow, N. S. . . . .	32		
North Bay, Ont. . . . .	662		

*If your home town is not listed above, your city or county engineer will gladly tell you the altitude above sea level of your locality.*

**Taylor** INSTRUMENTS



## CONVERSION TABLE FOR INCHES AND MILLIBARS

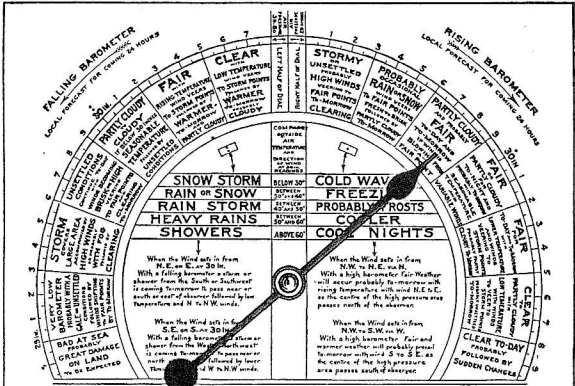
1 inch = 33.86395 millibars

1 millibar = 0.02952993 inch

INCHES	MILLIBARS	INCHES	MILLIBARS
25.00	846.6	28.00	948.2
25.10	850.0	28.10	951.6
25.20	853.4	28.20	955.0
25.30	856.8	28.30	958.3
25.40	860.1	28.40	961.7
25.50	863.5	28.50	965.1
25.60	866.9	28.60	968.5
25.70	870.3	28.70	971.9
25.80	873.7	28.80	975.3
25.90	877.1	28.90	978.7
26.00	880.5	29.00	982.1
26.10	883.8	29.10	985.4
26.20	887.2	29.20	988.8
26.30	890.6	29.30	992.2
26.40	894.0	29.40	995.6
26.50	897.4	29.50	999.0
26.60	900.8	29.60	1002.4
26.70	904.2	29.70	1005.8
26.80	907.6	29.80	1009.1
26.90	910.9	29.90	1012.5
27.00	914.3	30.00	1015.9
27.10	917.7	30.10	1019.3
27.20	921.1	30.20	1022.7
27.30	924.5	30.30	1026.1
27.40	927.9	30.40	1029.5
27.50	931.3	30.50	1032.9
27.60	934.6	30.60	1036.2
27.70	938.0	30.70	1039.6
27.80	941.4	30.80	1043.0
27.90	944.8	30.90	1046.4
		31.00	1049.8

# Taylor

## INSTRUCTIVE CHART



Taylor Key to Barometer Reading

A barometer with the above chart will give a weather forecast for 24 hours, and with a comparison of the outside air temperature and direction of wind at 30-inch readings, with the temperature and wind reference given on the chart, one can know the nature of a coming change of weather, also the general location of centers of areas of high and low pressure, and the rapidly with which the pressure areas travel, which will be indicated by the rate of the change of the barometer. High pressure areas read above 30 inches, while low pressure areas read below 30 inches. This key is arranged for sea level reading. Set the

barometer accordingly. Place barometer in an even temperature (unless the instrument is compensated for temperature); then the reading will be more accurate.

Set the brass band indicator directly over the black hand of the barometer every 24 hours, in order to ascertain the direction of movement of the hand from the indicator. If the movement of the black hand is to the right, the barometer is rising. Place the hand on this chart at a point corresponding to that of the barometer hand on the right half of the above dial. If to the left, it shows a fall; refer to left half for reading.

FOR FURTHER INFORMATION SEE OVER

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No. 4051

### For Aneroid Barometers

We strongly recommend this chart to all users of aneroid barometers. It gives much more information than can possibly be shown on a barometer dial. It will increase your interest in a barometer, as it explains fully the significance of all the instrument's movements.

Price . . . . . 75c each

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# WEATHER PROBABILITIES FOR BAROMETER READINGS

## BAROMETER RISING

29.0 to 29.3 inches

Clearing, with high winds and cool wave.

29.3 to 29.6 inches

High winds, with cool wave,  
preceded by squalls

29.6 to 29.9 inches

Fair weather, with fresh winds  
tonight and tomorrow

29.9 to 30.2 inches

Fair, with brisk winds, which will diminish.

30.2 to 30.5 inches

Generally fair weather, probably cool today,  
with variable winds.

30.5 to 30.8 inches

Clear weather tonight and continued cool,  
with moderate winds.

30.8 to 31.00

Southeast rains with high winds.

If the barometer reading hasn't changed since  
the last setting, continuation of existing  
weather conditions may be expected.

## BAROMETER FALLING

30.7 to 30.5 inches

Fair and warmer, followed by wind and rain.

30.5 to 30.2 inches

Storm brewing in the direction of the wind.

30.2 to 29.9 inches

Cloudy and warmer,  
followed by unsettled weather.

29.9 to 29.6 inches

Unsettled weather,  
increasing winds and warmer.

29.6 to 29.3 inches

Clearing, slight squalls,  
fair and cooler tomorrow.

29.3 to 29.0 inches

Clearing weather, with high winds,  
accompanied by squalls and cooler.

29.0 to 28.7 inches

Stormy weather.

*Note:* The rate and intensity of a coming weather change is proportional to the rate and intensity of change in pressure.

**ACRY FIRST!**