

1. AREA OF RESPONSIBILITY

Area Meteorological watch is provided for Amman FIR.

2. METEOROLOGICAL OBSERVATIONS AND REPORTS**Table of Meteorological observations and reports**

<i>Name Of Station/ Location Indicator</i>	<i>Frequency & type of Observation/Automatic Equipment</i>	<i>Types Of MET Reports & Supplementary Information Included</i>	<i>Observation System & Site(S)</i>	<i>Hours of Operation</i>
1	2	3	4	5
AMMAN/Marka * OJAM	Hourly plus special observation	METAR & SPECI & TREND TAF & Plain Language	Complete observing station 300M South of RWY.	H24
AMMAN/Queen Alia * OJAI	Hourly plus special observation	METAR & SPECI & TREND TAF & Plain Language	Complete observing station & automatic MET. station 1NM North of THR RWY 26L Transmissometer located at appropriate distance from THR & middle of RWYs.	H24
AQABA/King Hussein * OJAQ	Hourly plus special observation	METAR & SPECI & TREND TAF & Plain Language	An automated digital weather observation system is Located at 150M West of centerline of RWY 01. Transmissometer is located at 120M West of center line of RWY 01 . Observing station is located at 323M East of center line of RWY 01.	H24
* Climatological tables are available for each airport				

4. TYPES OF SERVICES PROVIDED

At Amman/Marka and Amman /Queen Alia aerodrome, a 24 hour personal briefing, consultation service, and flight documentation for flight crews is provided.

Oral briefing either in person or by telephone is provided for other aerodromes.

Flight documentation is normally provided for international flights comprising significant weather charts, upper winds and upper air temperature charts and the latest available aerodrome forecast for the destination and if required for its alternate aerodromes.

Flights of intermediate stops are provided with forecasts at 3 hours advance notice, otherwise, Oral briefing is provided covering the routes to the next aerodrome where briefing and flight documentation is available.

RVR observations are carried out at AMMAN/Queen Alia Airport, AMMAN/Marka Airport and AQABA/King Hussein Airport.

An automatic surface weather station is in operation only at AMMAN/Queen Alia Airport, AQABA/ King Hussein Airport and AMMAN/Marka Airport.

The station provides remote readings of the measurements of wind, temperature, and humidity, pressure, cloud heights and visual range for each runway. Digital display units connected to the station are available at the ME, AIS and TWR offices.

Climatological Summaries

Climatological Summaries for the stations indicated in an asterisk on page 3.5-3 are available from the Director of Meteorological Department, Ministry of Transport, AMMAN/Marka Airport, Jordan. Other stations for which Climatological Summaries are available are listed in GEN 3.5-6 till GEN 3.5-26

Regular monthly summaries of meteorological data are published for the following stations in Jordan:

AMMAN/Marka Airport
AMMAN/Queen Alia Airport
AQABA/ King Hussein Airport
RUWAISHED
SAFAWI
IRBID
MA'AN
MAFRAQ Airport
ZARQA

Basic data are available for other Climatological stations. Requests for meteorological and Climatological data should be addressed to:

The Hashemite kingdom of Jordan
Meteorological Department
P. O. Box 341011 11134, Amman
Phone: +(962) 6 4892408
Fax: +(962) 6 4894409
e-mail: mail@jometeo.gov.jo

5. NOTIFICATION REQUIRED FROM OPERATORS

Pursuant to ICAO Annex 3, chapter 2, paragraph 2.3, notification in respect of all flight documentation and briefing is normally required. Such notification should normally be received at least:

- a) 3 Hours before the estimated of block time of flight for International scheduled flights; and
- b) 6 hours before the estimated off block time of flight for non-scheduled international flights, however, oral MET briefing is available at any time without previous notice.

6. AIRCRAFT REPORTS REQUIRED FROM PILOTS

Post Flight

Pilots of commercial aircraft arriving at Jordanian Aerodromes in addition to handling of the AIREP form are required to report to the meteorological office on the meteorological conditions encountered in flight. Flights of duration of less than one and half-hour are exempted from these requirements unless an unusual or unexpected phenomena has been encountered. Such oral comments may be reserved for AMMAN/Queen Alia Meteorological office if this Airport is a point of landing of the same flight.

STATION: MA'AN

Month Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
AIR TEMPERATURE °C												
Mean Monthly	25.5	25.7	23.8	19.5	13.5	9.0	7.7	9.3	12.3	16.8	20.8	24.0
Highest Maximum	42.2	41.0	38.7	36.4	29.6	28.0	27.7	29.0	33.4	35.2	39.2	40.0
lowest Minimum	9.2	10.2	7.4	3.3	-3.0	-7.6	-7.7	-5.5	-6.8	-1.4	4.4	8.5
Mean Maximum	33.9	34.1	32.2	27.2	20.2	14.9	13.6	15.6	19.1	24.1	28.6	32.4
Mean Minimum	17.1	17.2	15.4	11.8	6.8	3.0	1.7	3.0	5.4	9.4	12.9	15.6
RELATIVE HUMIDITY %												
0600	34	36	41	48	64	71	73	66	54	43	37	33.0
1200	19	19	20	23	34	38	38	33	28	23	20	17
1800	33	35	40	41	53	57	56	49	42	37	34	3.5
RAINFALL MM												
Mean Monthly	0.0	0.0	0.1	2.9	5.0	7.4	5.3	7.6	6.4	3.3	2.5	0.0
Highest amount a day	0.0	0.0	4.8	19.4	44.0	33.4	16.1	37.1	9.9	11.8	22.6	0.0
CLOUD												
0-1 Oktas Party	29.2	30.8	27.8	20.9	13.8	11.8	11.8	11.4	13.3	12.2	18.0	27.4
2-6 Oktas overcast	1.8	0.7	2.2	9.6	15.4	17.8	17.9	15.7	16.4	15.7	12.8	2.7
7-8 Oktas	0.0	0.0	0.0	0.5	0.8	1.4	1.2	1.1	1.3	1.1	0.2	0.0
PHENOMENA												
Snow	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.4	0.3	0.0	0.0	0.0
Hail	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0
Fog	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0
Dust	0.1	0.0	0.1	0.3	0.0	0.3	0.0	0.1	0.3	0.3	0.0	0.1
Thunderstorm	0.0	0.0	0.2	1.2	0.7	0.2	0.3	0.1	0.4	5.1	0.6	0.0
Lightning	0.0	0.0	0.1	1.0	0.7	0.2	0.3	0.1	0.4	0.5	0.5	0.0
Gale	0.0	0.0	0.0	0.1	0.2	0.5	1.3	1.5	1.6	1.5	0.3	0.1

MA'AN STATION (CONT)

<u>Pressure (QFE)</u>								
	0600	1200	1800			0600	1200	1800
JUL	890.8	889.7	890.3		JAN	895.9	894.2	895.5
AUG	891.4	890.2	890.9		FEB	895.2	893.7	894.7
SEP	894.0	892.4	893.4		MAR	894.4	892.9	893.7
OCT	896.5	894.6	895.7		APR	893.7	892.5	892.8
NOV	897.6	895.7	896.9		MAY	893.8	892.3	892.9
DEC	897.0	895.6	896.8		JUN	893.0	891.6	892.2

Notice :-

- | | |
|--------------------------------------|--|
| 1- Temperature in Degrees Centigrade | 5- Phenomena in Times Per month |
| 2- Relative Humidity in Percentage | 6- Pressure in Millibars |
| 3- Rainfall in Millimeters | 7- Gale means wind speed $\geq$ 34 KTs |
| 4- Clouds in Oktas | |

Prevailing Wind

Winter

Mainly SW-W'LY 10-15 KTs . Occasional Gale wind is from SW-W'LY direction Calm wind is often experienced at night and early morning 20-30% of the occasions .

Summer

Mainly W-N'LY 8-15 KTs . It increases in the afternoon reaching 20-25 KTs . During the night and early morning the wind is generally light and variable .

STATION: MAFRAQ AIRPORT

Element / Month	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
AIR TEMPERATURE °C												
Mean Monthly	24.4	24.4	22.8	19.3	13.6	8.9	7.4	8.7	11.4	15.9	20.1	22.8
Highest Maximum	43.5	43.6	40.0	36.6	31.0	26.0	24.4	27.3	32.6	37.5	40.0	40.5
lowest Minimum	9.6	10.0	7.0	3.2	-6.5	-7.6	-8.2	-6.8	-5.3	-5.5	2.8	4.9
Mean Maximum	32.8	32.8	31.1	27.3	20.3	14.4	12.7	14.5	17.8	23.4	28.2	31.6
Mean Minimum	15.9	15.9	14.5	11.4	6.8	3.3	2.0	2.9	4.9	8.3	11.7	14.1
RELATIVE HUMIDITY %												
0001	76	82	80	74	75	85	87	84	82	70	63	69
0600	58	66	70	64	72	84	87	83	74	58	48	50
1200	26	27	28	31	42	54	57	50	43	32	25	24
1800	53	59	61	58	63	76	79	75	68	58	48	47
RAINFALL MM												
Mean Monthly	0.0	0.0	0.3	7.1	19.8	28.5	35.4	30.6	28.0	8.5	3.1	0.0
Highest amount in a day	0.0	0.0	7.8	18.4	33.8	45.9	27.6	40.2	35.2	26.5	16.4	1.6
CLOUD												
0-1 Oktas Clear	24.2	22.4	19.8	13.7	8.4	6.0	5.0	5.4	6.4	6.6	11.9	21.9
2-6 Oktas Partly Cloudy	6.0	7.3	9.4	15.8	20.0	21.3	20.9	18.5	20.7	21.0	18.1	7.6
7-8 Oktas Overcast	0.1	0.0	0.2	0.6	1.7	3.8	4.5	4.2	3.5	2.2	0.8	0.0
PHENOMENA												
Snow	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.5	0.2	0.0	0.0	0.0
Hail	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
Fog	0.6	1.0	1.5	0.8	1.3	3.3	3.2	2.0	1.6	0.8	0.4	0.2
Dust	1.9	1.3	1.2	1.9	0.8	0.5	0.5	0.7	1.3	2.3	2.1	1.9
Thunderstorm	0.0	0.0	0.2	0.7	0.5	0.3	0.2	0.2	0.4	0.5	0.5	0.1
Lightning	0.0	0.0	0.2	1.0	1.0	0.7	0.5	0.5	0.7	0.4	0.3	0.1
Gale	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.1	0.2	0.1	0.0

MAFRAQ AIRPORT (CONT)

<u>Pressure (QFE)</u>										
	0000	0600	1200	1800			0000	0600	1200	1800
JUL	931.3	932.2	930.8	931.4		JAN	939.6	940.0	938.5	939.5
AUG	932.1	932.8	931.5	932.2		FEB	937.8	938.4	937.2	937.9
SEP	935.3	935.9	934.4	935.4		MAR	936.6	937.4	936.1	936.8
OCT	937.8	938.9	937.1	938.1		APR	935.4	936.2	934.8	935.4
NOV	939.5	940.7	938.9	939.7		MAY	934.8	936.0	934.5	935.1
DEC	939.6	940.4	938.9	940.0		JUN	933.4	934.5	933.1	933.6

Notice :-

- | | |
|--------------------------------------|---------------------------------------|
| 1- Temperature in Degrees Centigrade | 5- Phenomena in Times Per month |
| 2- Relative Humidity in Percentage | 6- Pressure in Hecto Pascal |
| 3- Rainfall in Millimeters | 7- Gale means wind speed $\geq$ 34 KT |
| 4- Clouds in Oktas | |

Prevailing Wind:

Winter :

Mainly from the S-SW direction at 11-21 KT. Occasionally, Gales are experienced from a Westerly component more than 34 KT, Gusting 50 KT. Winds associated with poor visibility (Dusty conditions) are mainly from E - SE direction. Winds associated with rain or showers are mainly from SW-NW direction. Winds at night and early morning hours are mainly light and variable. Calm wind forms 14% of the total occasions and occur during nights.

Summer :

Mainly from NW 'LY direction at 8-15 KT.

STATION: ZARQA

Element / Month	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
AIR TEMPERATURE °C												
Mean Monthly	27.8	27.3	25.5	22.6	16	10.9	9.6	10.5	14.3	18.2	22.5	25.2
Highest Maximum	41.8	40.6	39.5	39	32.5	25.6	21.6	28.4	32.4	35.2	38.2	41
lowest Minimum	17.4	17.8	15	9.8	3.1	0.2	0.8	0	1.7	5	9	13.6
Mean Maximum	34.4	34	32.3	29	21.3	15.4	13.7	15.1	19.9	24.4	29.3	31.9
Mean Minimum	21.1	20.5	18.6	16.3	10.7	6.4	5.4	5.8	8.6	11.9	15.8	18.5
RELATIVE HUMIDITY %												
0600	61.3	68.7	69	70.3	72.7	81	84.7	81.6	71.1	62.7	54.4	58.8
1200	40.5	41	41.1	46.6	50	60.3	62.4	57.2	45.6	41.2	32.8	36.9
1800	56.6	61.6	61	64.9	66.1	74.7	76	69.7	63.4	57.3	50.2	53.4
RAINFALL MM												
Mean Monthly	0.0	0.0	2.3	1.1	6.9	11.6	35.4	32.1	14.7	3.3	1.3	0.0
Highest amount in a day	0.0	0.0	9	3.4	9.8	16.2	14.3	14.6	10.5	12.3	3	0.0
CLOUD												
Mean cloud Amount	0.1	0.2	0.4	1.2	2.3	2.9	3.2	3.5	2.7	2.6	1.3	0.2
No. of cloudy days	0.0	0.0	0.0	0.0	0.6	2	2	4.2	1.8	0.8	0.0	0.0
Mean No. of cloudy days	24.2	22.8	20.8	16.3	10.2	8.4	7.8	5.8	8.8	9.4	17.4	23.6
PHENOMENA												
Snow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
Hail	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fog	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0
PRESSURE (QFE)												
0600	937	937.7	941.2	943.3	945.4	945.6	944.3	643.7	942.8	940.7	940.4	939
1200	935.9	936.5	939.8	996.2	943.7	944.3	934	942.5	941.4	939.6	939	937.8
1800	936.3	937.1	940.6	942.5	944.6	945.1	943.9	943.2	942.1	940.1	939.5	938.1

Notice:-

- | | |
|--------------------------------------|--|
| 1- Temperature in Degrees Centigrade | 5- Phenomena in Times Per month |
| 2- Relative Humidity in Percentage | 6- Pressure in Hecto Pascal |
| 3- Rainfall in Millimeters | 7- Gale means wind speed ≥ 34 KTs |
| 4- Clouds in Oktas | |