



JORDAN METEOROLOGICAL DEPARTMENT

Prepared by

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Director of Instruments

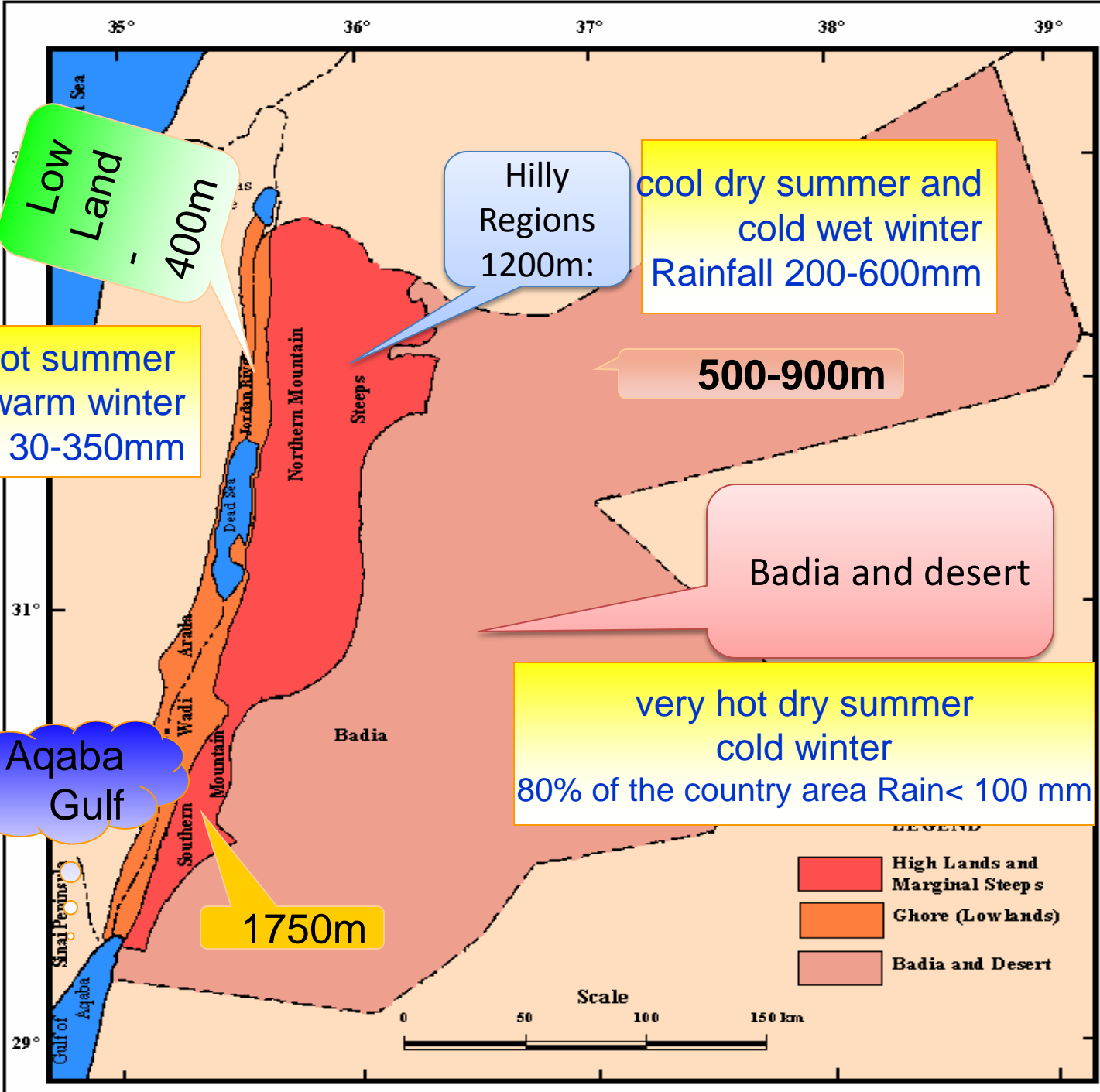
Characteristics of Jordan climate

The Weather Systems affect Jordan

- Frontal Depression, winter (Dec,Jan,Feb)
- Siberian Anticyclones, Feb., Frosty & Dry
- Khamasinci Conditions, Spring(23 march, April ,May ,22 June) dust
And instability with occasional heavy rain
- Red Sea Trough, Summer (late June, July, August ,22 Sep) ---warm and hot
- Monsoon, late Summer Autumn Time, Warm & Moist

**The extreme weather and climate events
affected Jordan *agriculture***

- 1. Frost**
- 2. Heat Waves**
- 3. Floods/ heavy precipitation**
- 4. Wind storms**
- 5. Sand storms**
- 6. Drought**



Low Land
- 400m

very hot summer
warm winter
Rain 30-350mm

Hilly Regions
1200m:

cool dry summer and
cold wet winter
Rainfall 200-600mm

500-900m

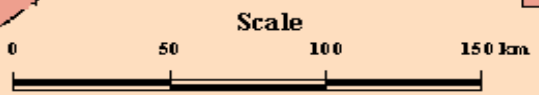
Badia and desert

very hot dry summer
cold winter
80% of the country area Rain < 100 mm

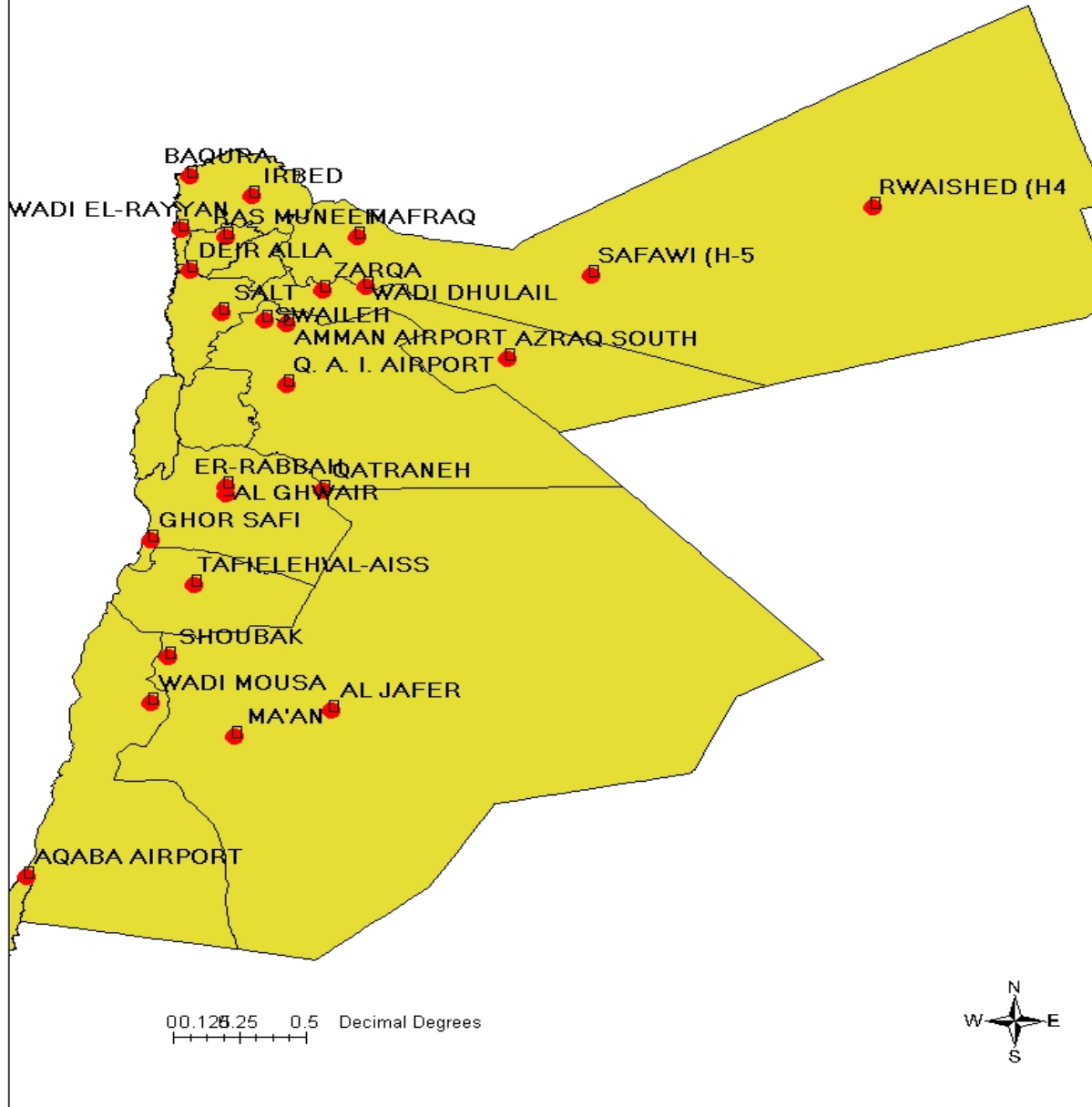
Aqaba Gulf

1750m

- LEGEND
- High Lands and Marginal Steeps
 - Ghore (Lowlands)
 - Badia and Desert

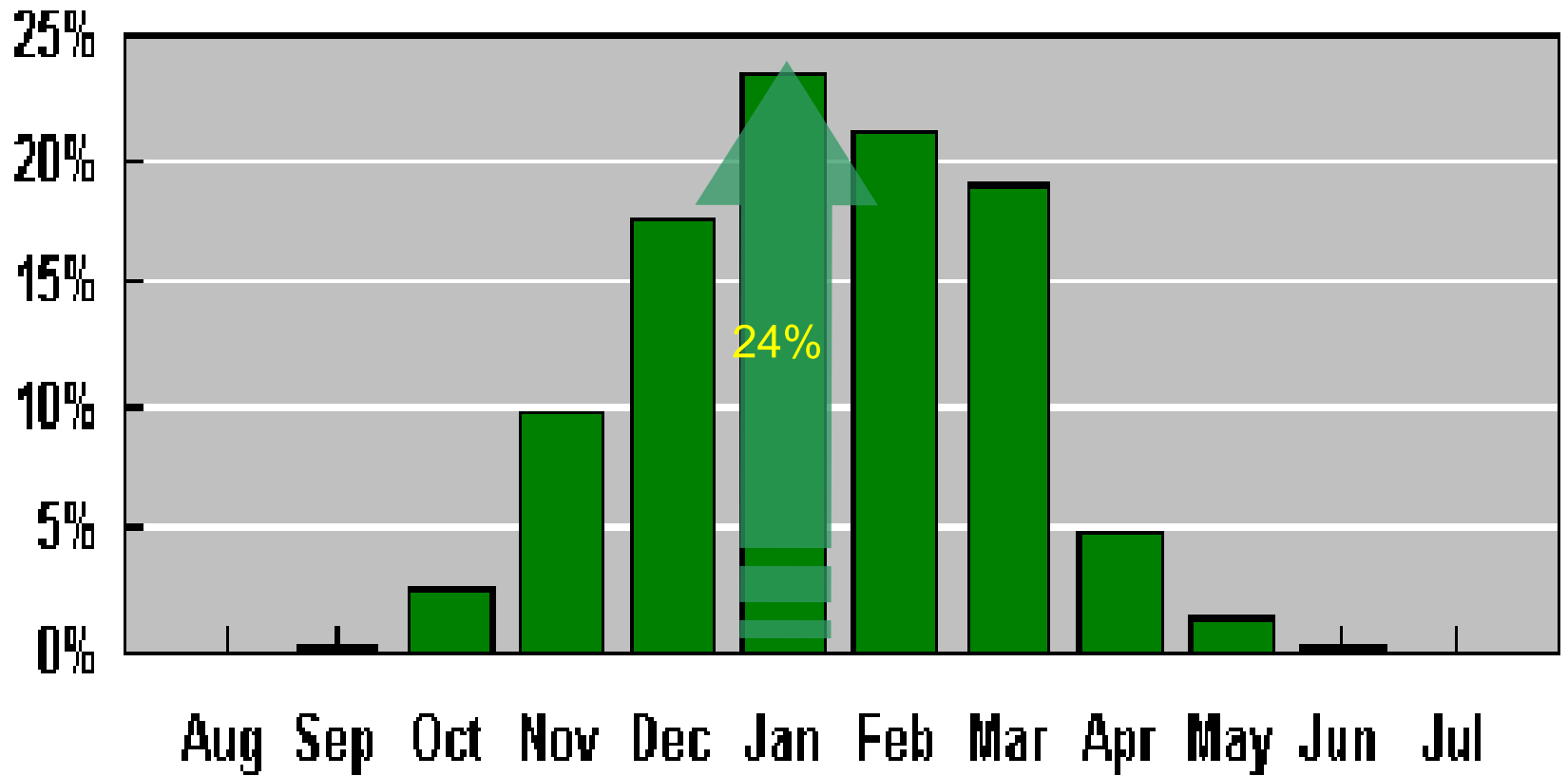


Jordan Meteorological stations

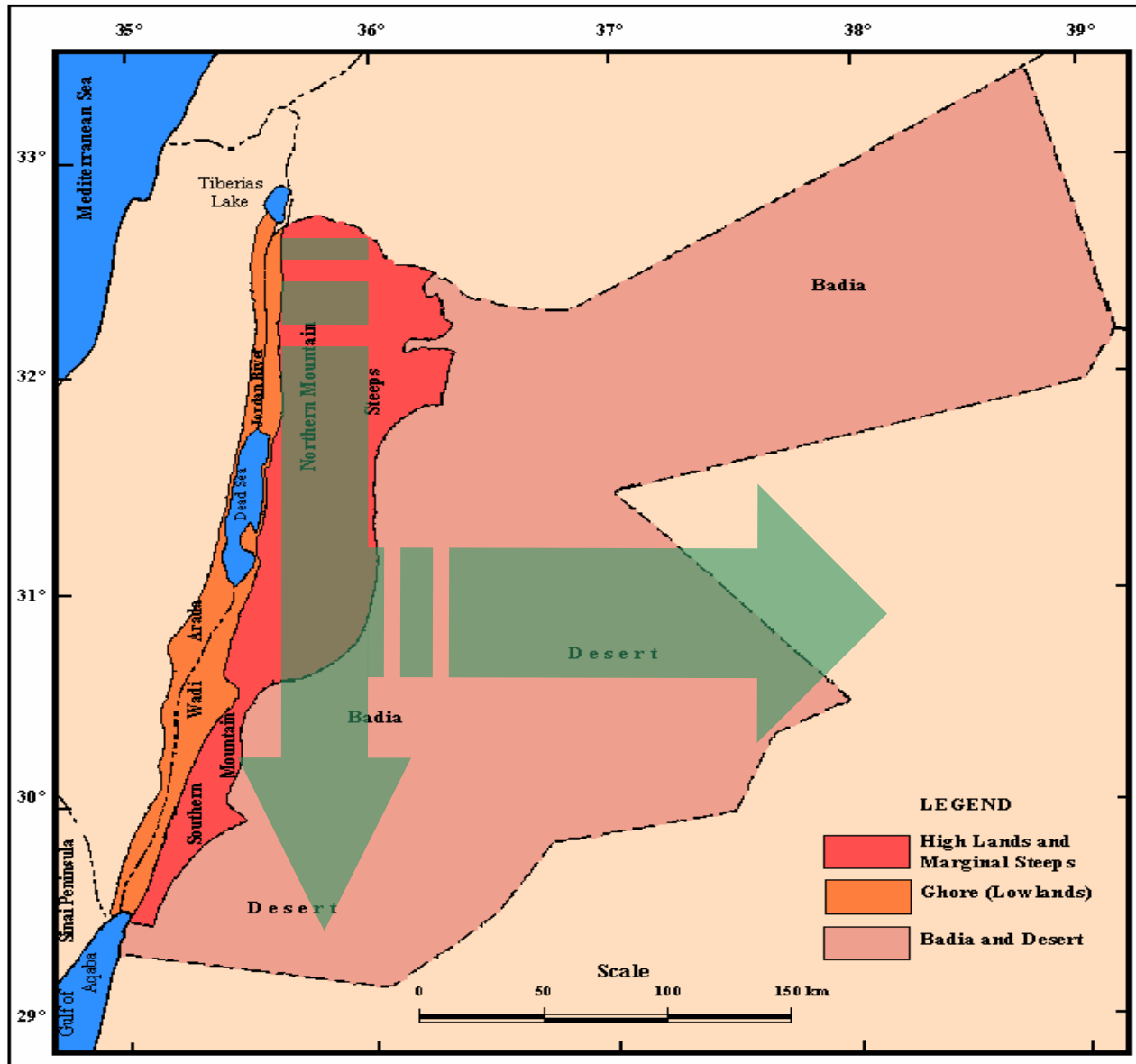


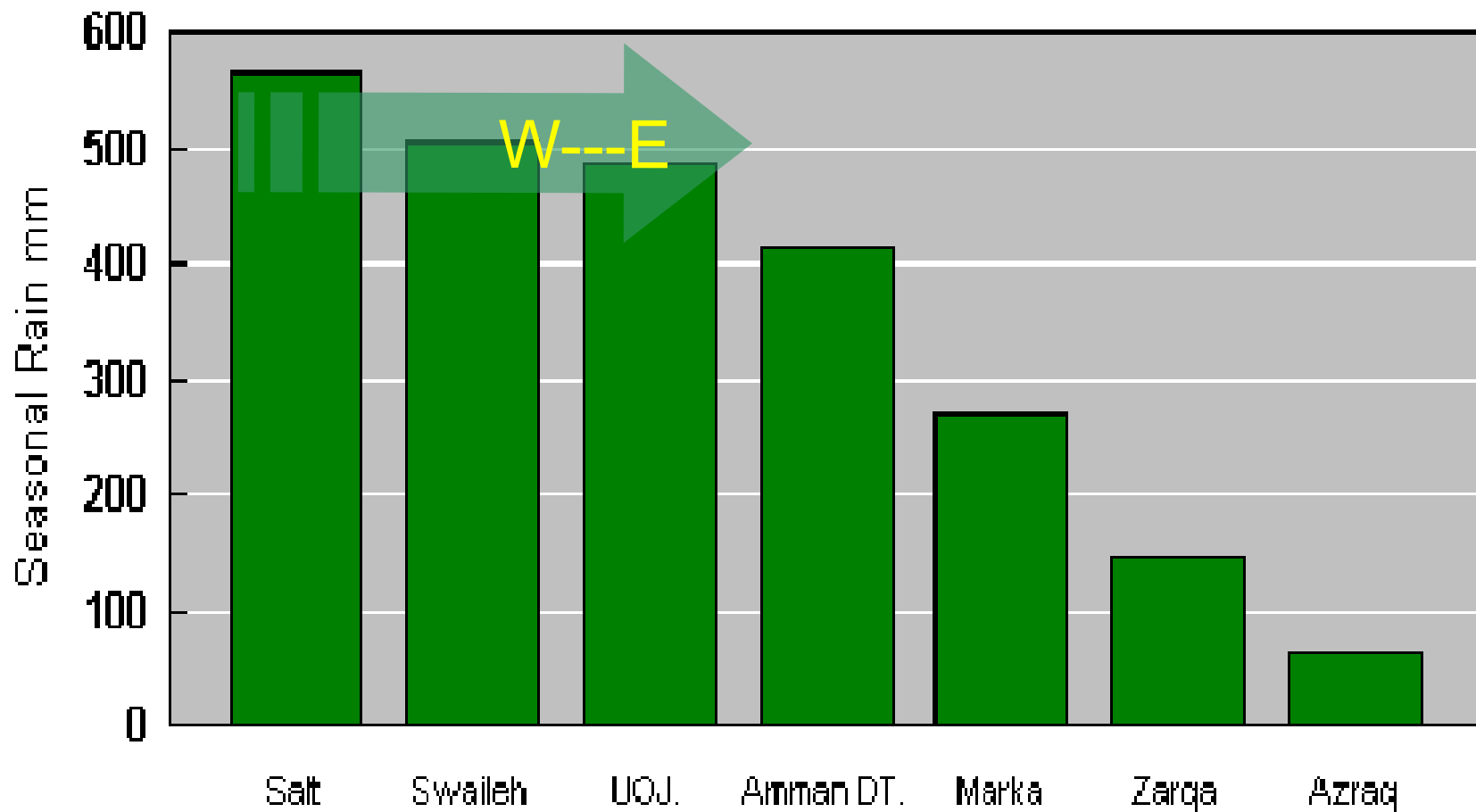
Rain characteristics

Temporal Distribution of Rain Over Jordan

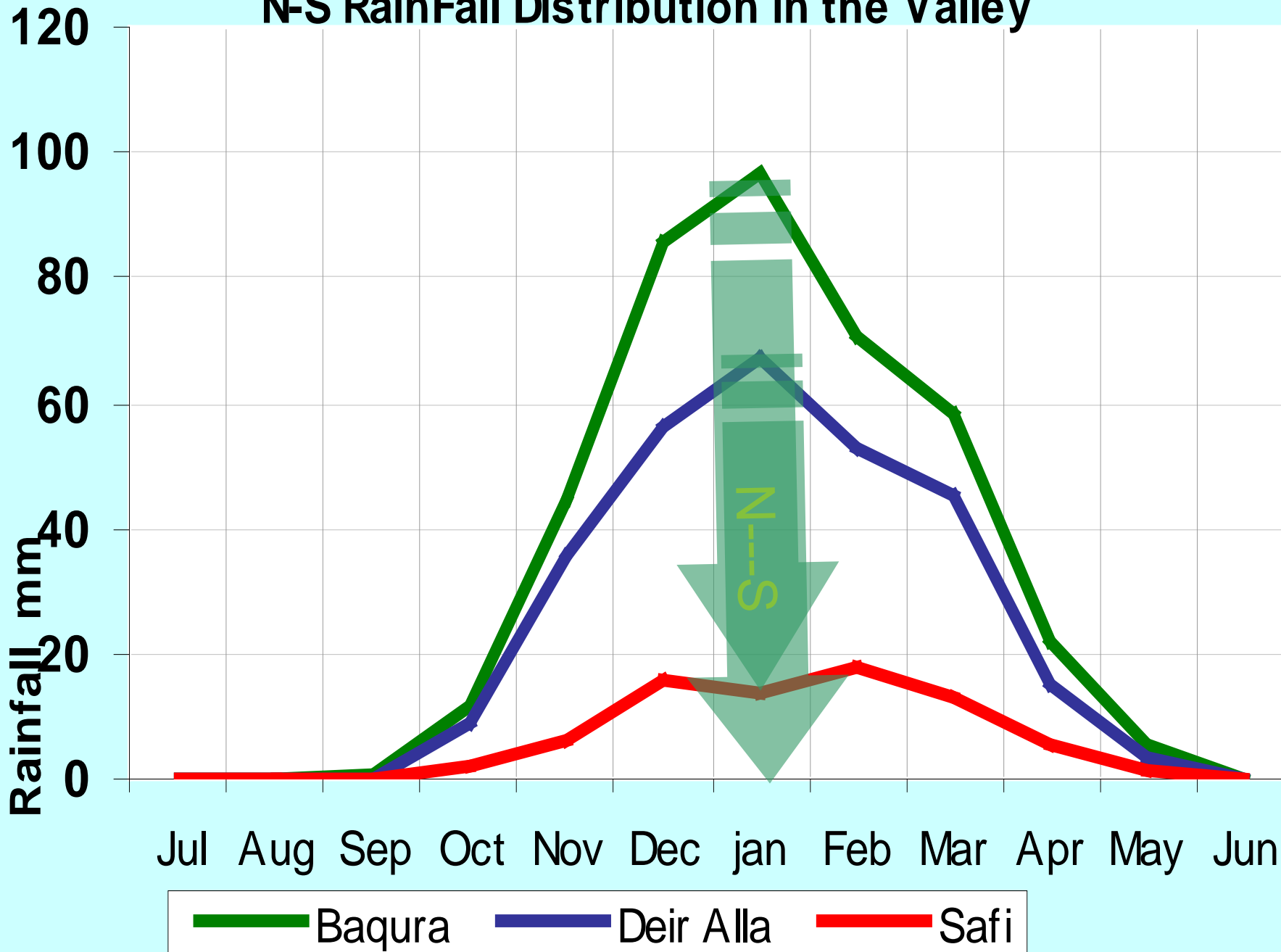


Rainfall - Jordan

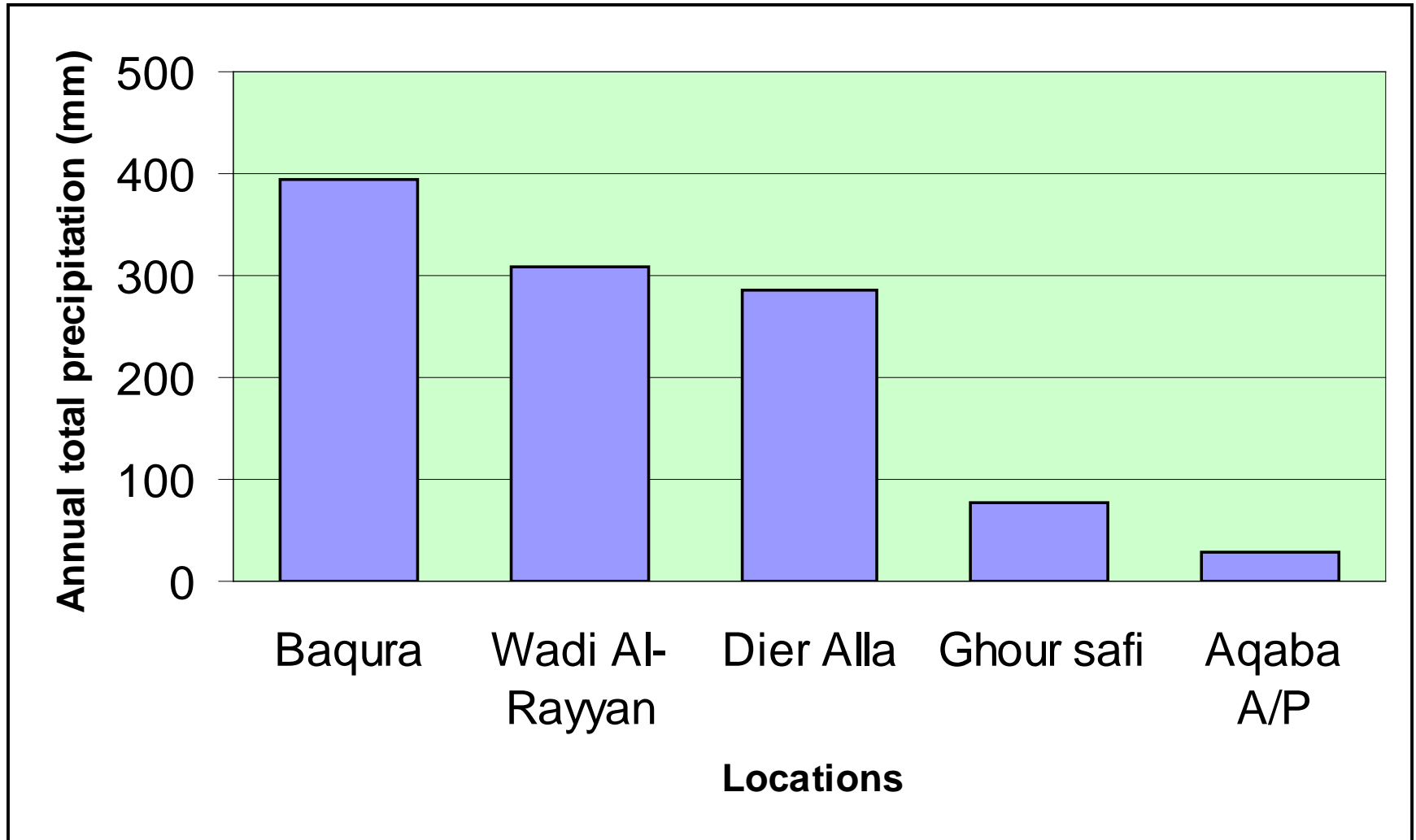




N-S RainFall Distribution in the Valley

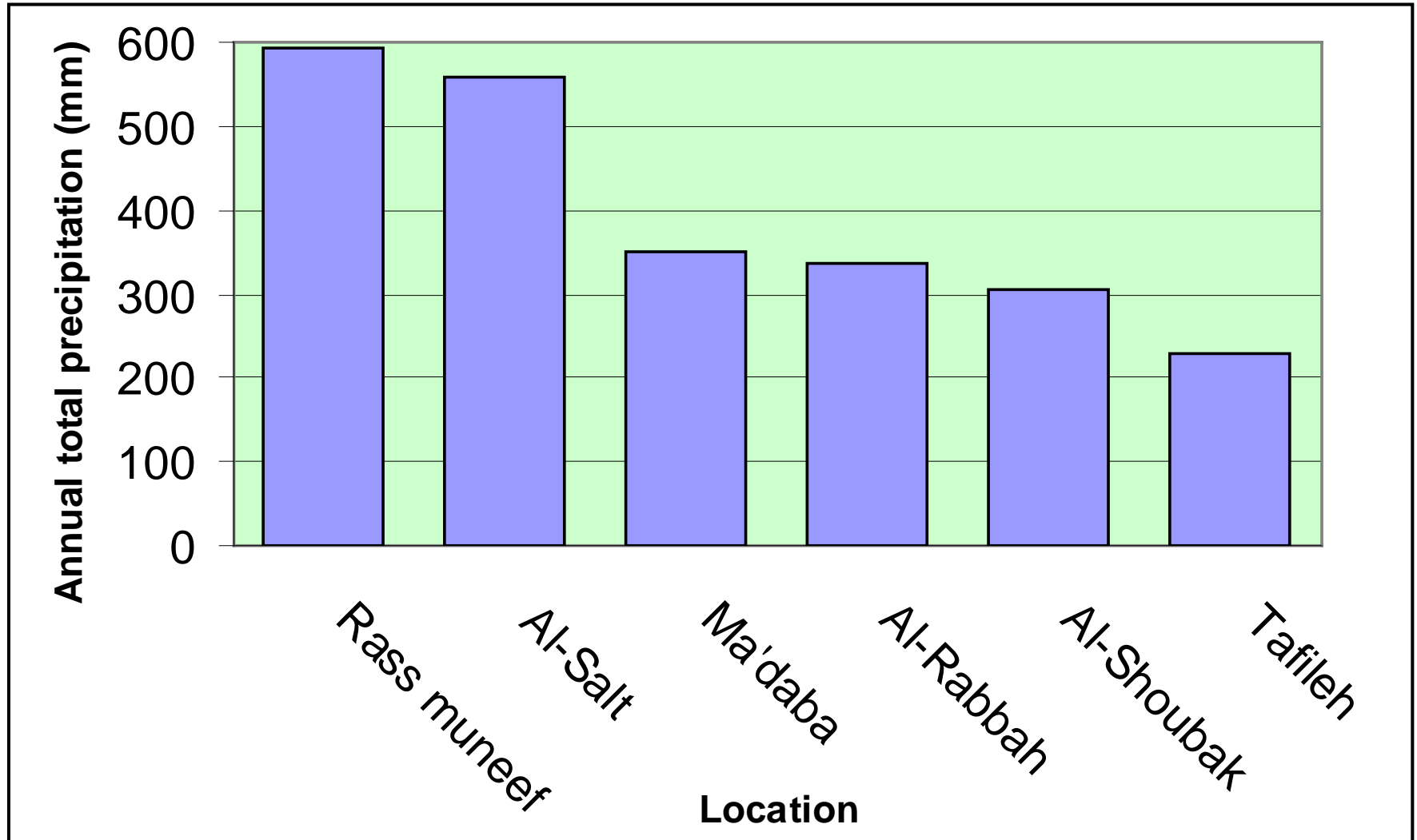


PRECIPITATION CHARACTERISTICS

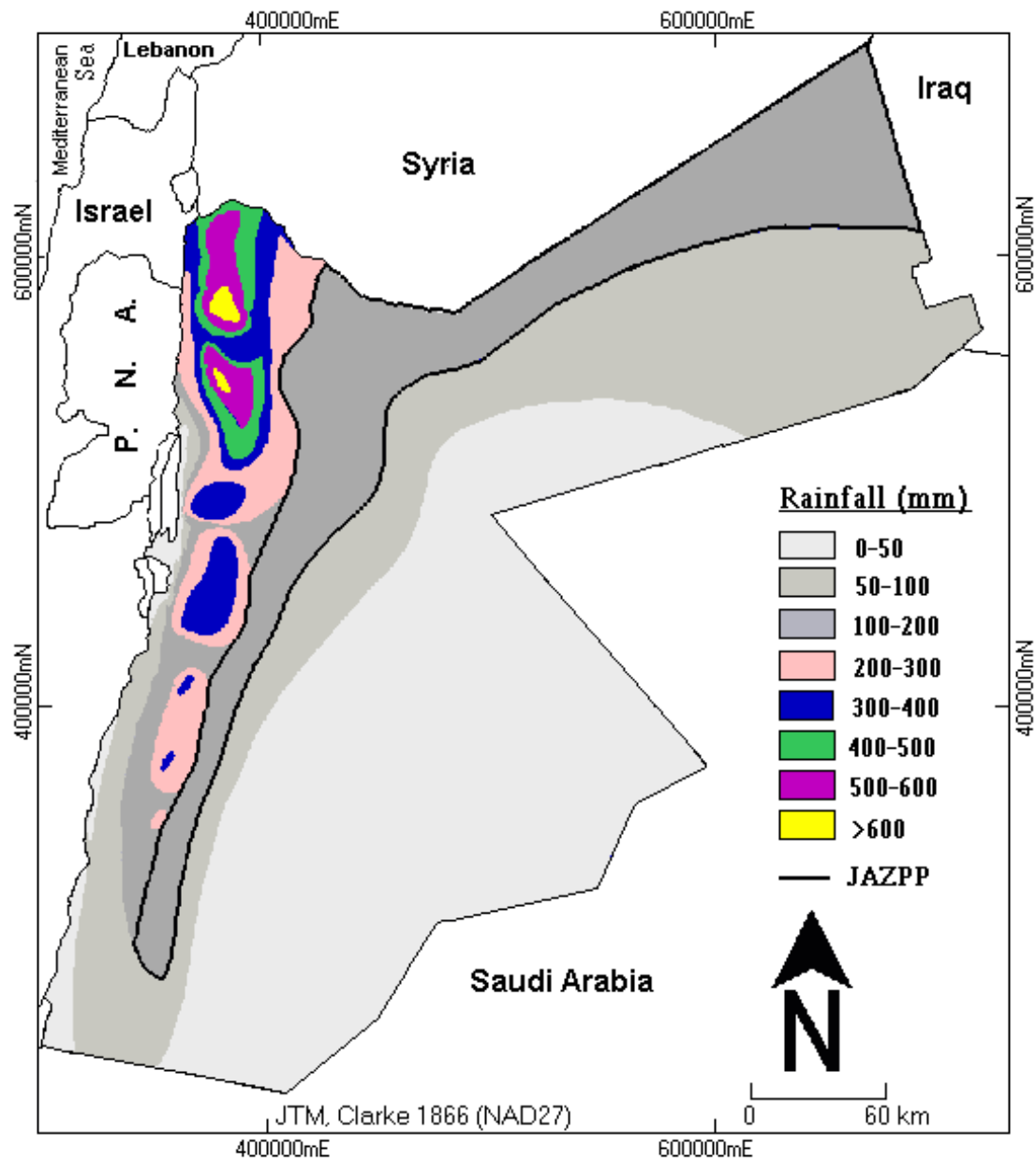


North – South spatial variation of precipitation in the Ghore region.

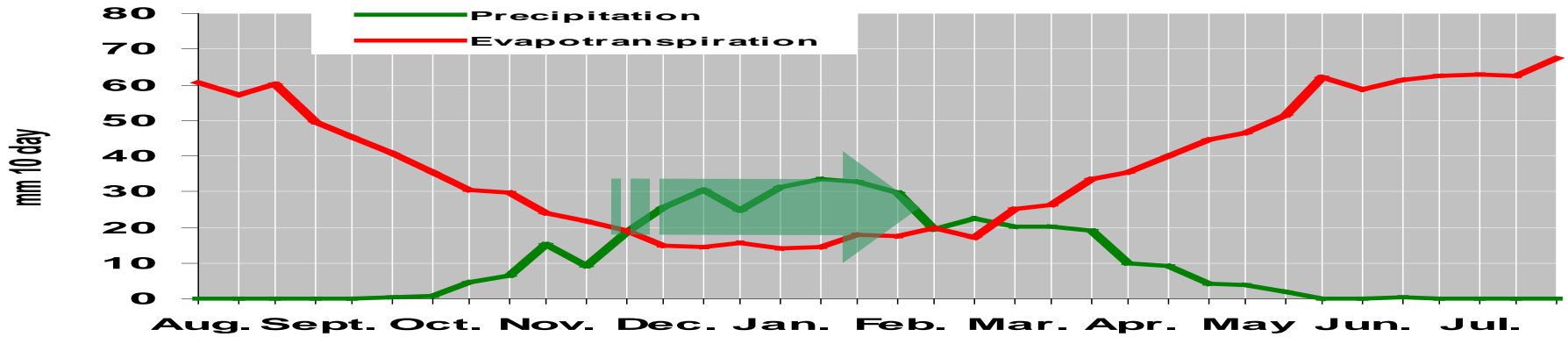
PRECIPITATION CHARACTERISTICS



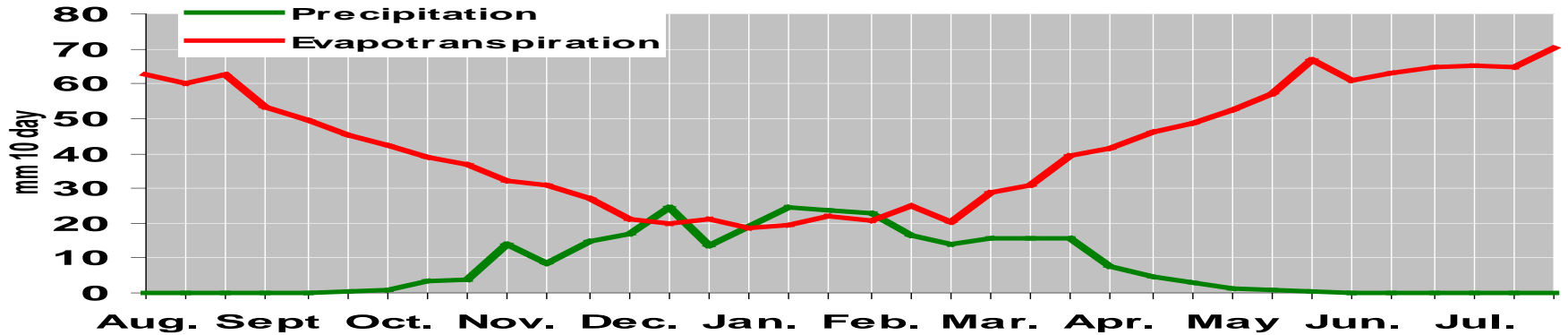
North – South spatial variation of precipitation in the Mountainous region.



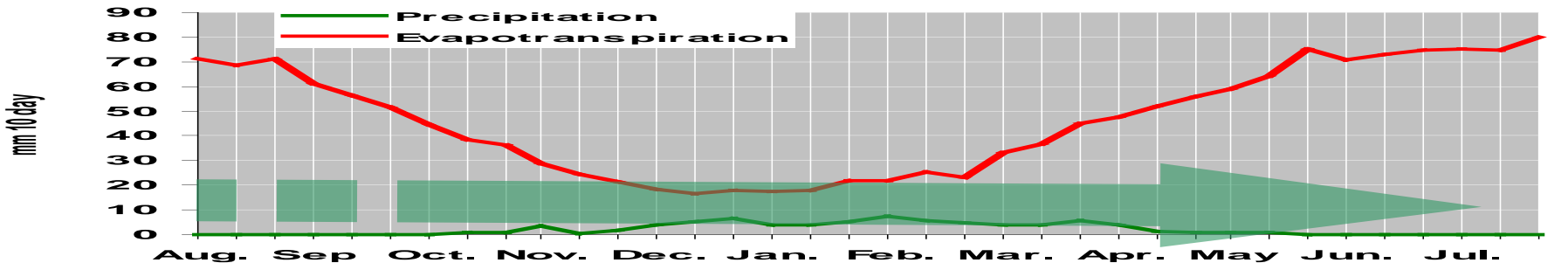
Baqura - North Valley



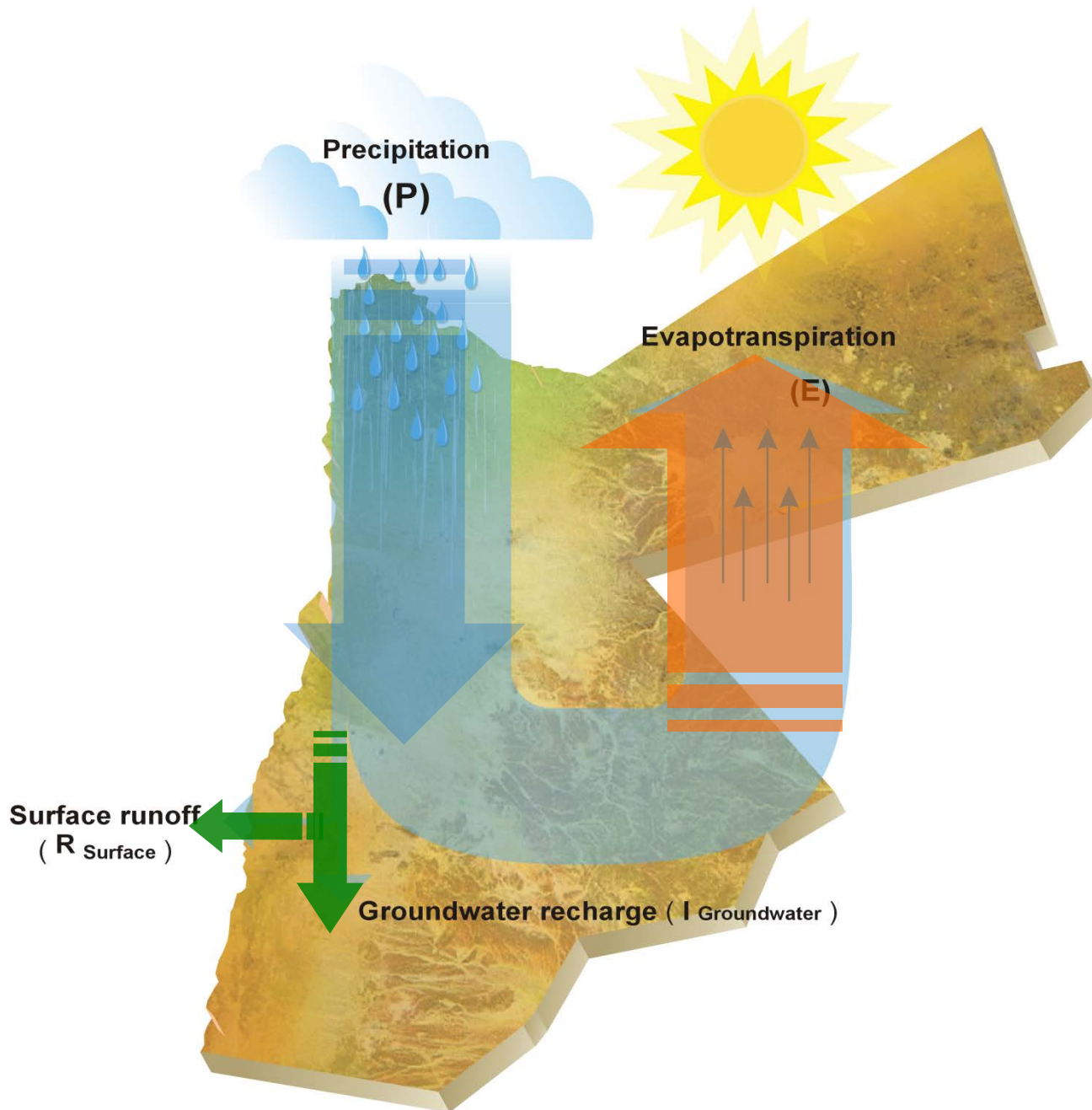
Deir Alla - Central Valley



Ghor Safi - Southern Valley



Water Balance - Jordan



92% Evaporates ➤

Only 8% is ➤
available in the
form of flood
flow &
groundwater