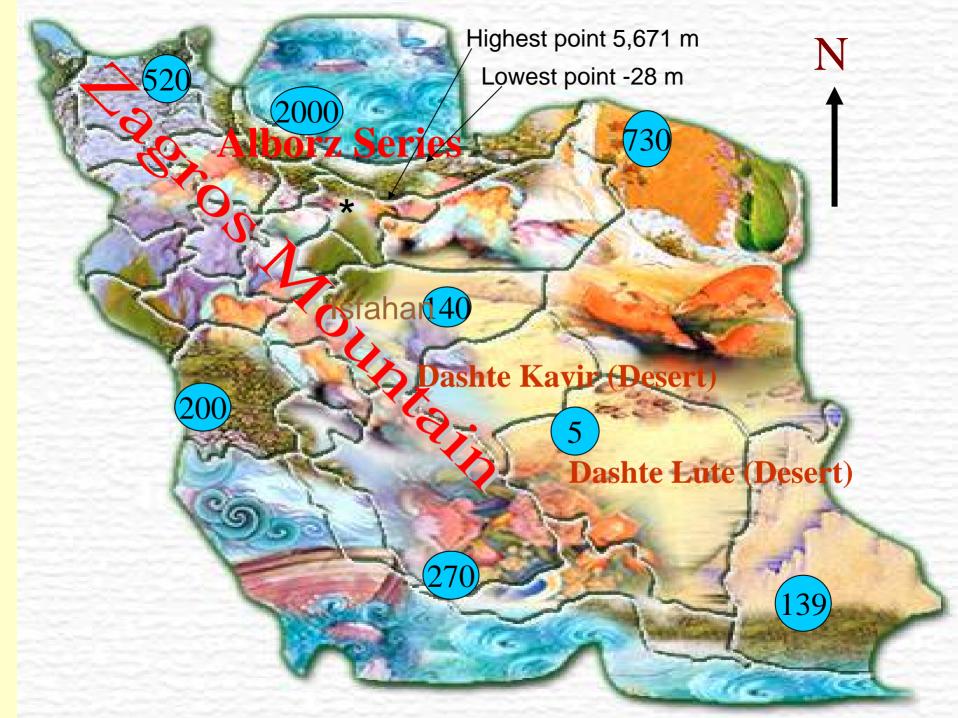
# **SWAT Application in Iran**

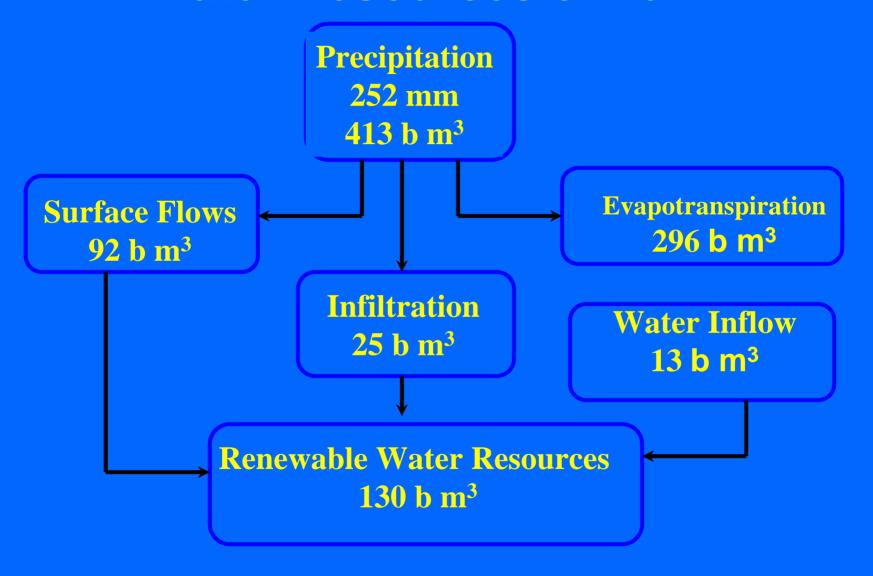
**Majid Afyuni** 



**Isfahan University of Technology** 

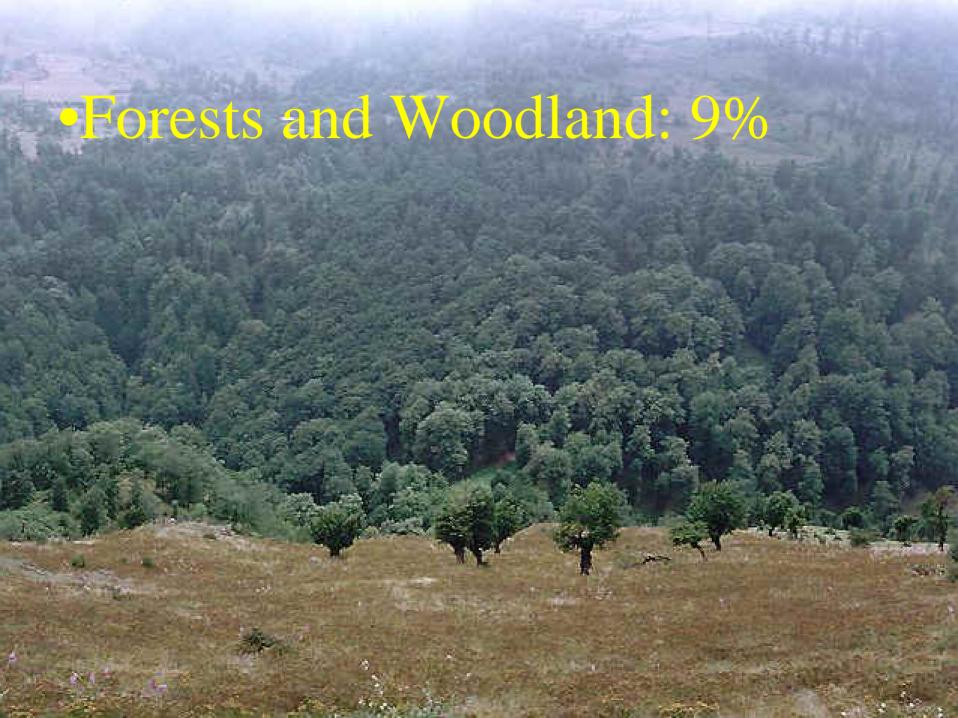


# Water Resources of Iran









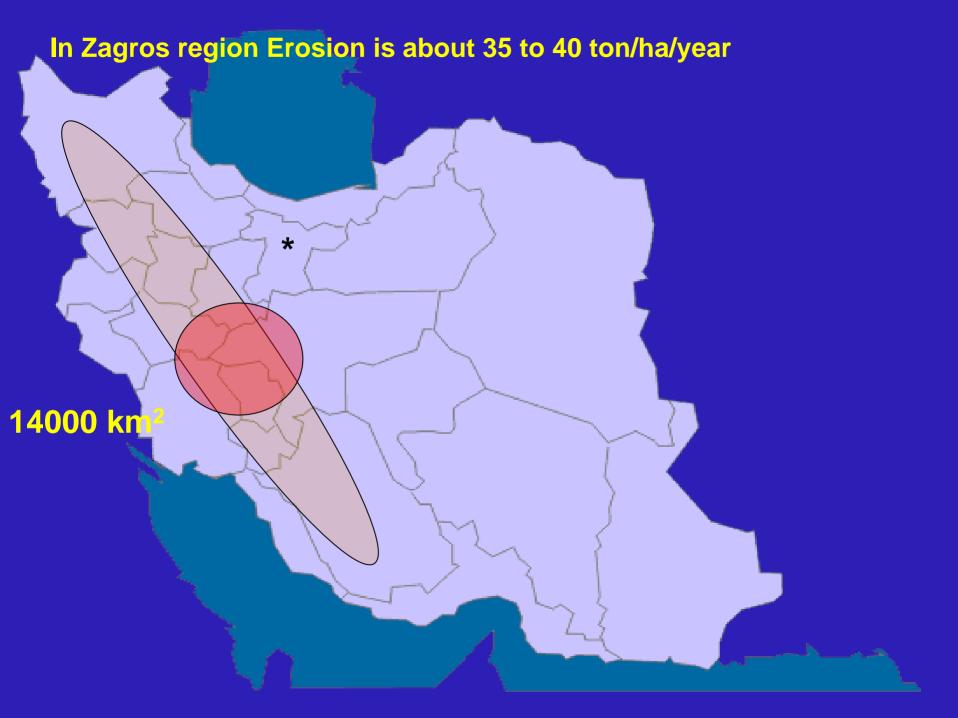


# FAO reports that about 36% of total land and 60% of the agricultural soils in Iran are in danger of erosion.

- Cultivation of steep slopes
- Deforestation
- Wind erosion
- Water erosion

Region	Soil Erosion (ton/ha/year)
Asia, Africa, S. America	30-40
USA, Europe	13-17
Iran	30-32

The average erosion in Iran is about 4.3 times of the global



# Deforestation has decreased the productivity of forest lands in central Zagros.



# Conversion of range land to dry farming land



# The following data is available for central Zagrous region;

Land use at
Soil map
DEM
Land cover
Soil Erosion Map

## **Climate data:**

Rainfall, monthly and for some station daily data for the last 30-yr Max and Min Temperature
Solar Radiation
Relative Humidity
Pan Evaporation
Wind

# **Hydrological Data:**

Water and Sediment Load