International Training Workshop on Integrated Sediment Management in River Basin

Beijing, China November 5-10, 2018

A LOOK AT THE EROSION AND SEDIMENT SITUATION IN IRAN



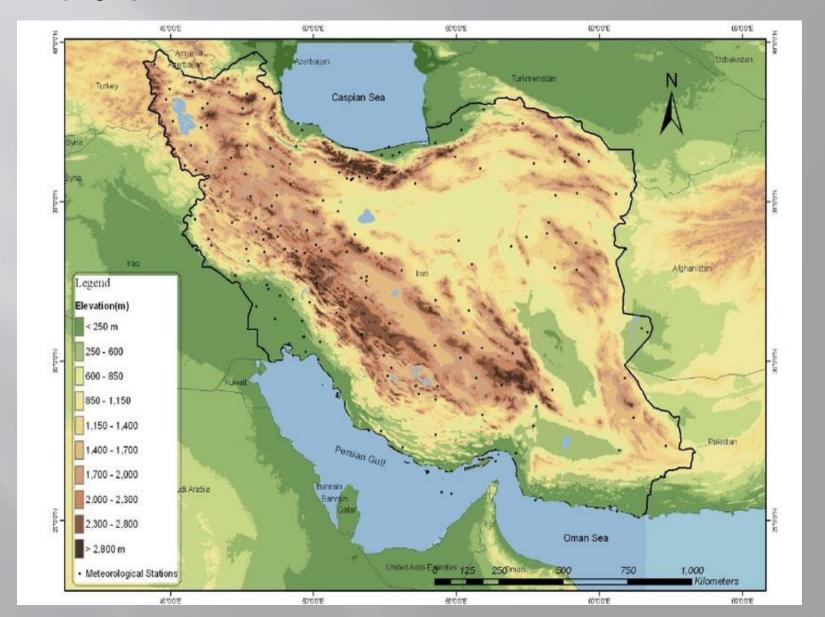
Farshid Amiryazdani Water Resources Management Company of Iran

Outline

- Introduction to General Geography of Iran
- General condition of sediment and erosion in Iran

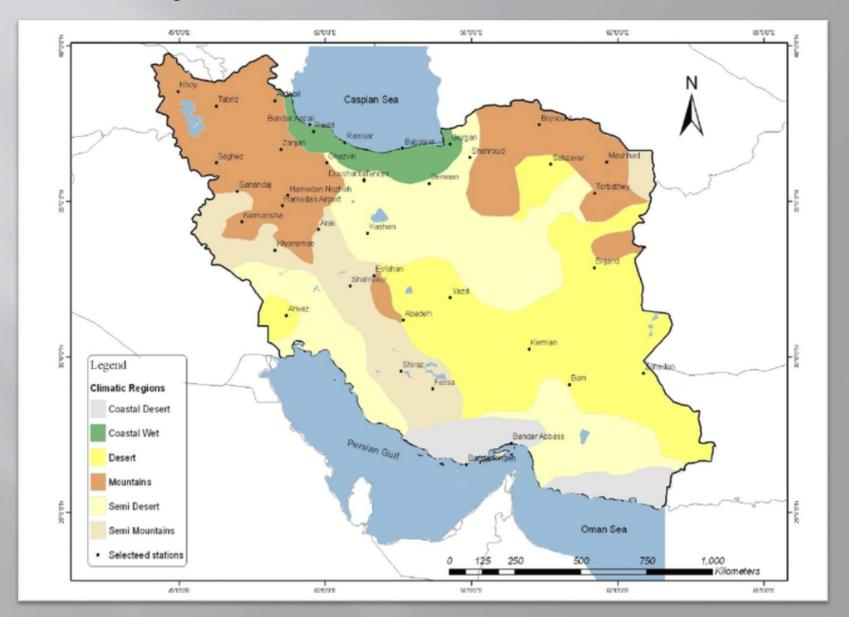
Introduction to General Geography of Iran

Topographic features



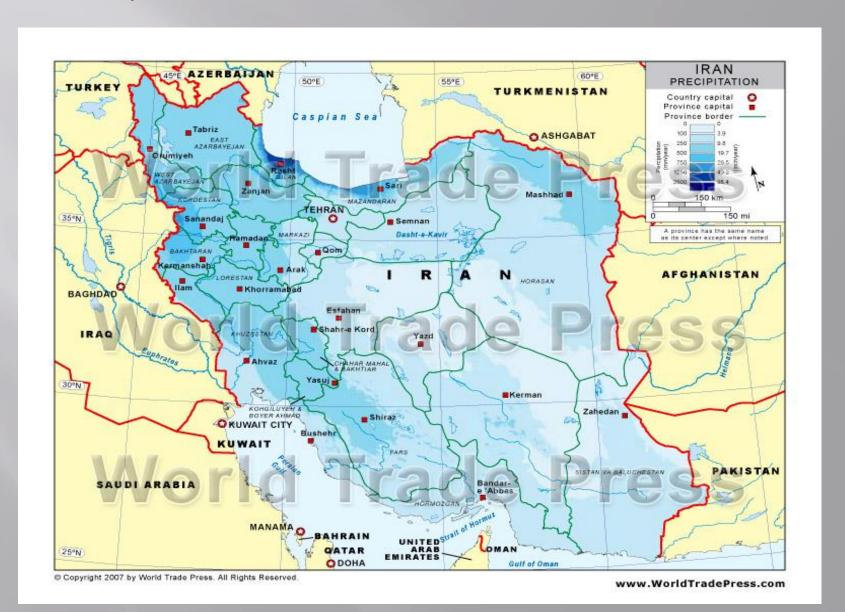
Introduction to General Geography of Iran

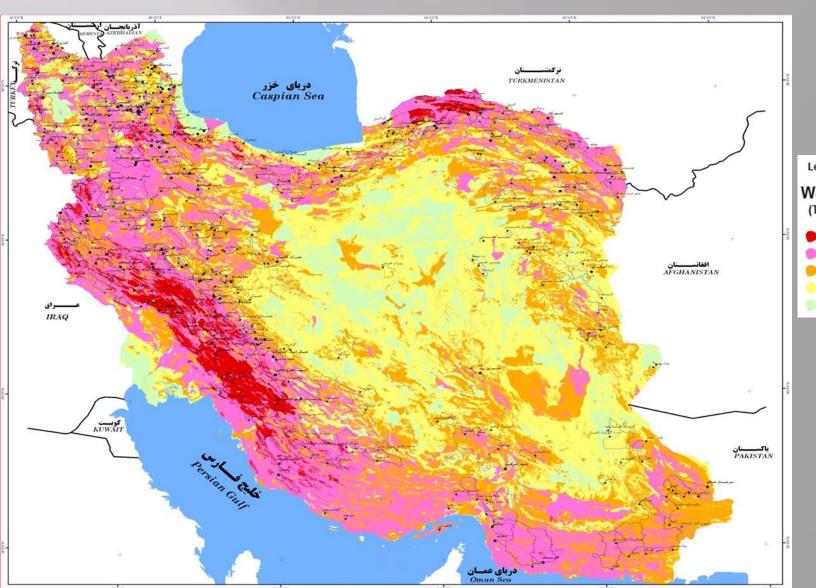
Climate Regions



Introduction to General Geography of Iran

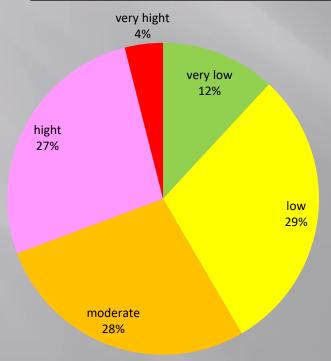
Quantity and distribution of rainfall

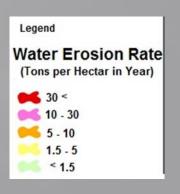




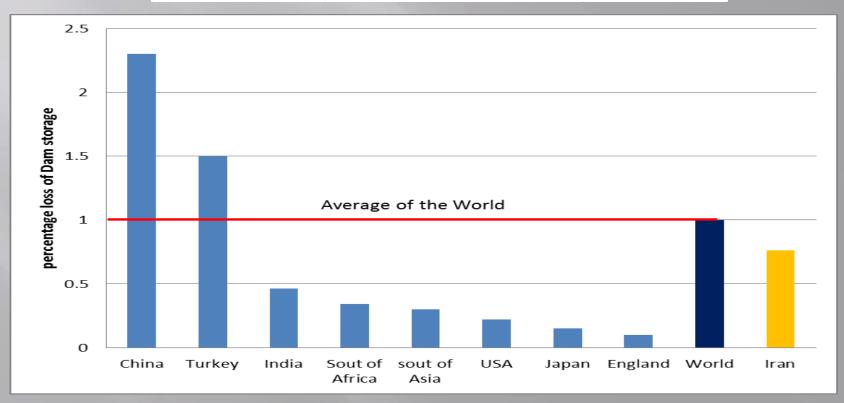


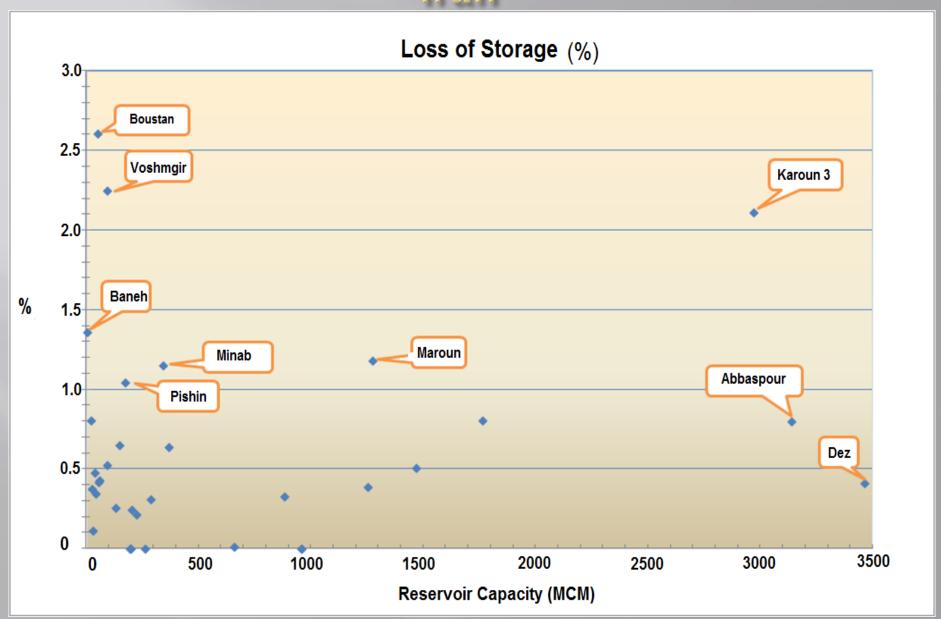
% of country	Area (m.hec)	Situstion	Water Erosion Rate (Ton/Hec)
12	19.4	Very low	< 1.5
30	49	Low	1.5 - 5
28	43.4	Moderate	5 - 10
27	45.2	Hight	10 - 30
4	7.2	Very hight	> 30

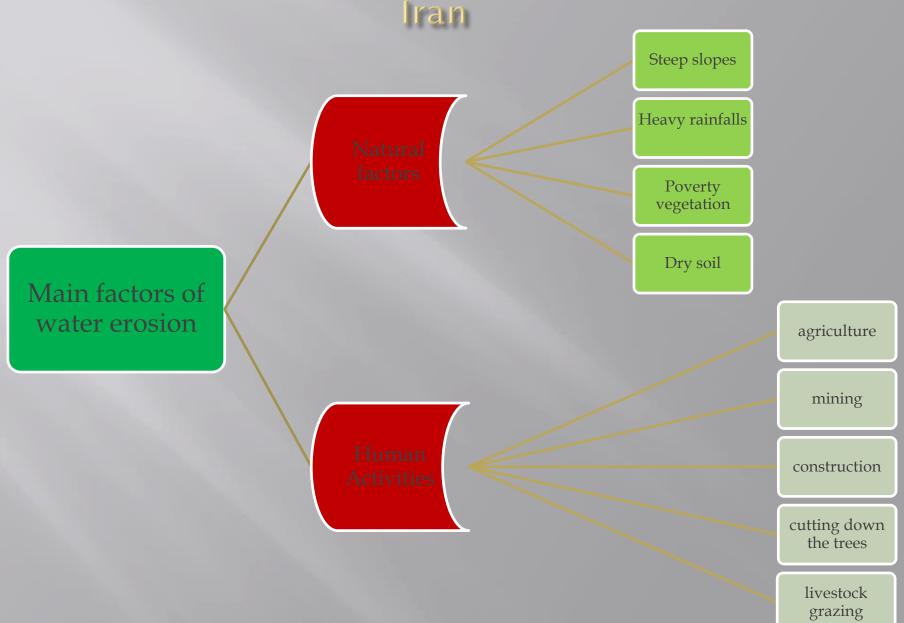




Parameter	Average specific Erosion	Loss of
	(ton per hec. in year)	storage (%)
I ran	16.7	0.76
world (Average)	5 - 6	0.75 - 1









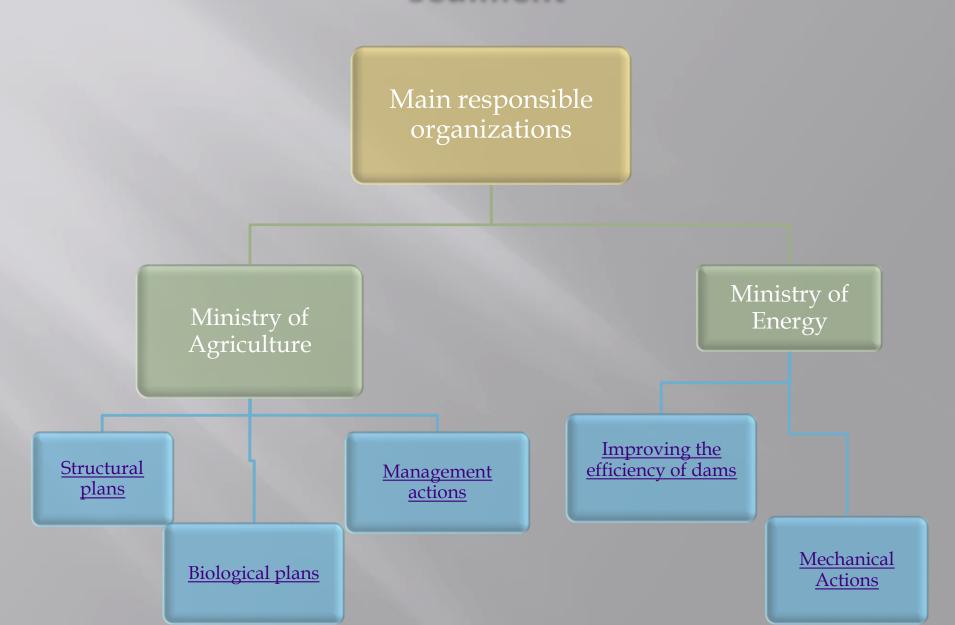








- The main problems of sediment integrated management in Iran
 - Lack of coordination between responsible organizations and island decisions
 - Traditional approach to erosion and sediment management
 - Excessive emphasis on the executive role of government agencies in affairs sediment and Watershed Conservation
 - The lack of supervision systems to observe the principles of watershed management in the people activities



Construction of Turkey nest & CheckDam by Gabion or stone

Terracing the steep lands

Modify plowing

<u>...</u>









- Seedling
- Seeding
- Restoration of pastures
- Planting forage
- <u>...</u>









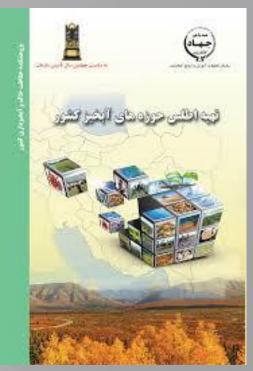


- Preparation of Atlas ofWatersheds of the Country
- Preventing excessive livestock
- Encourage people in cooperation in watershed

management

• <u>...</u>







- Considering sediment engineering measures in the design of large reservoirs
- Improve and update the dams' operation guidelines
- Upgrading of hydro mechanical equipment of dams for release
 - the sedimentary flow
- <u>...</u>





- Hydrography of reservoirs of dams In order to monitor the incoming sediment and the volume of the reservoir
- Dredging of rivers and irrigation canals
- Performing river training operations with regeneration and naturalization approach

