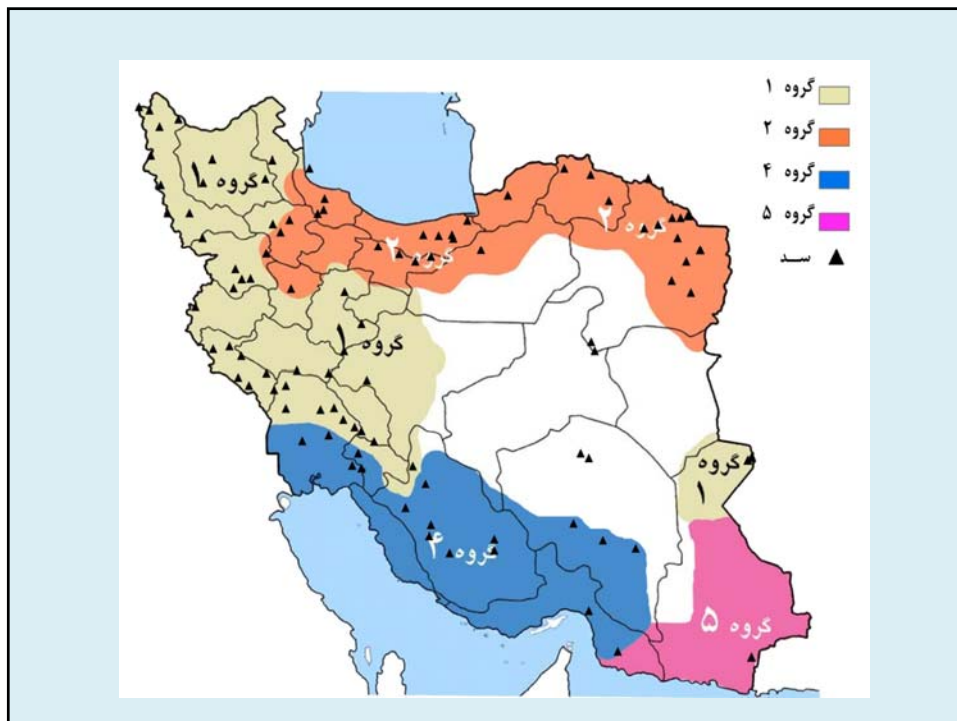


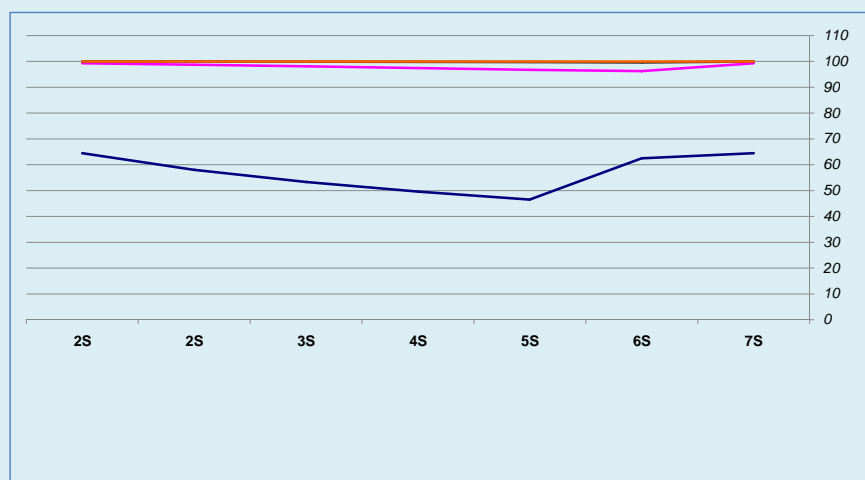
The Iranian New Criteria for Selection of Design Floods



Risk for the downstream

	S1	S2	S3	S4	S5	S6	S7	S8
D50/D50	1	1	1	1	1	1	1	1
D100/D50	8	2	2	6	5	4	3	2
D1000/D50	20	4	4	36	25	16	9	4
D10000/D50	80	8	200	216	125	64	27	8
D100000/D50	400	10	400	2000	1000	200	100	50

<97 % of Risk would be from Q<Q1000



B/C of PMF spillway

- Dam Cost= \$ 100 m (medium dam)
- Spillway extra Cost for PMF=\$10 m
- Total Downstream Damage should be:

\$100 B

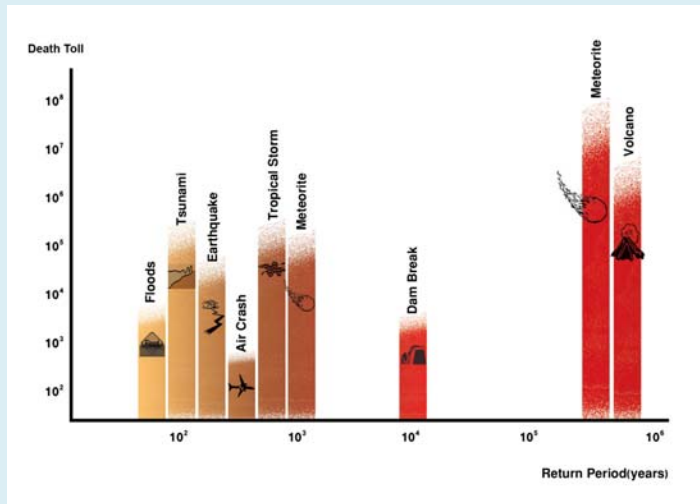
**for B/C=1 for accommodating PMF
So for nearly all spillways B/C<<1**

Socially Acceptable Risk (SAR)



**Strength of a chain
=
Strength of the weakest link**

Socially Acceptable Risk (SAR)



- European Criteria:
(DF=Q1000 ,SCF=5000-10000)
- U.S. Criteria:
(DF=PMF (Incremental damage Evaluation)
- Japanese Criteria
- (DF=Q200 for Concrete and DF=1.2Q200 for earthfill and rockfill dams

