

GRAND CANYON TREATMENT PLAN PREVIEW

JONATHAN DAMP
JOEL PEDERSON
GARY O'BRIEN

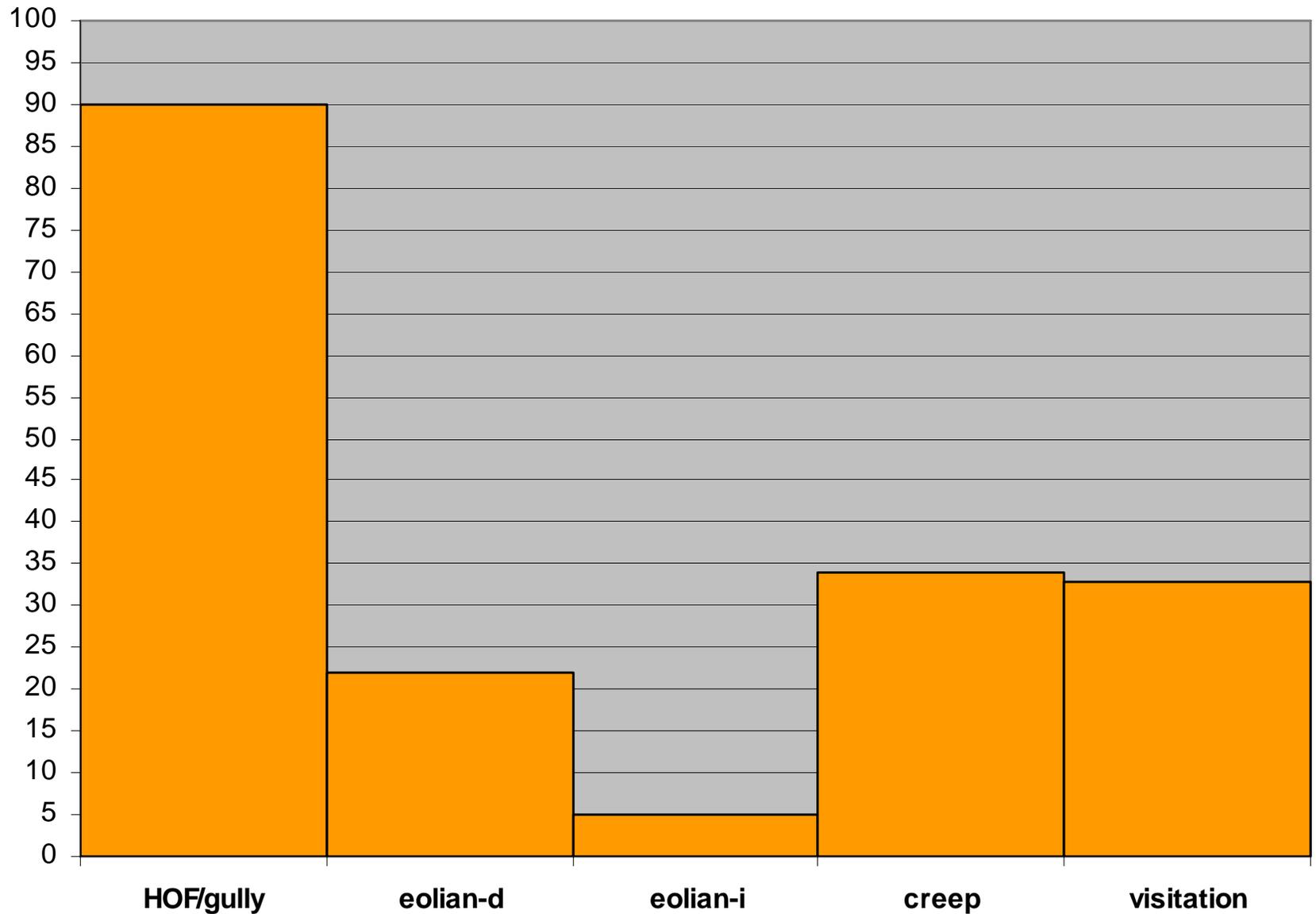
Site Assessment Results:

- erosional processes
- erosion severity ranking
- matrix of site info potential and erosion

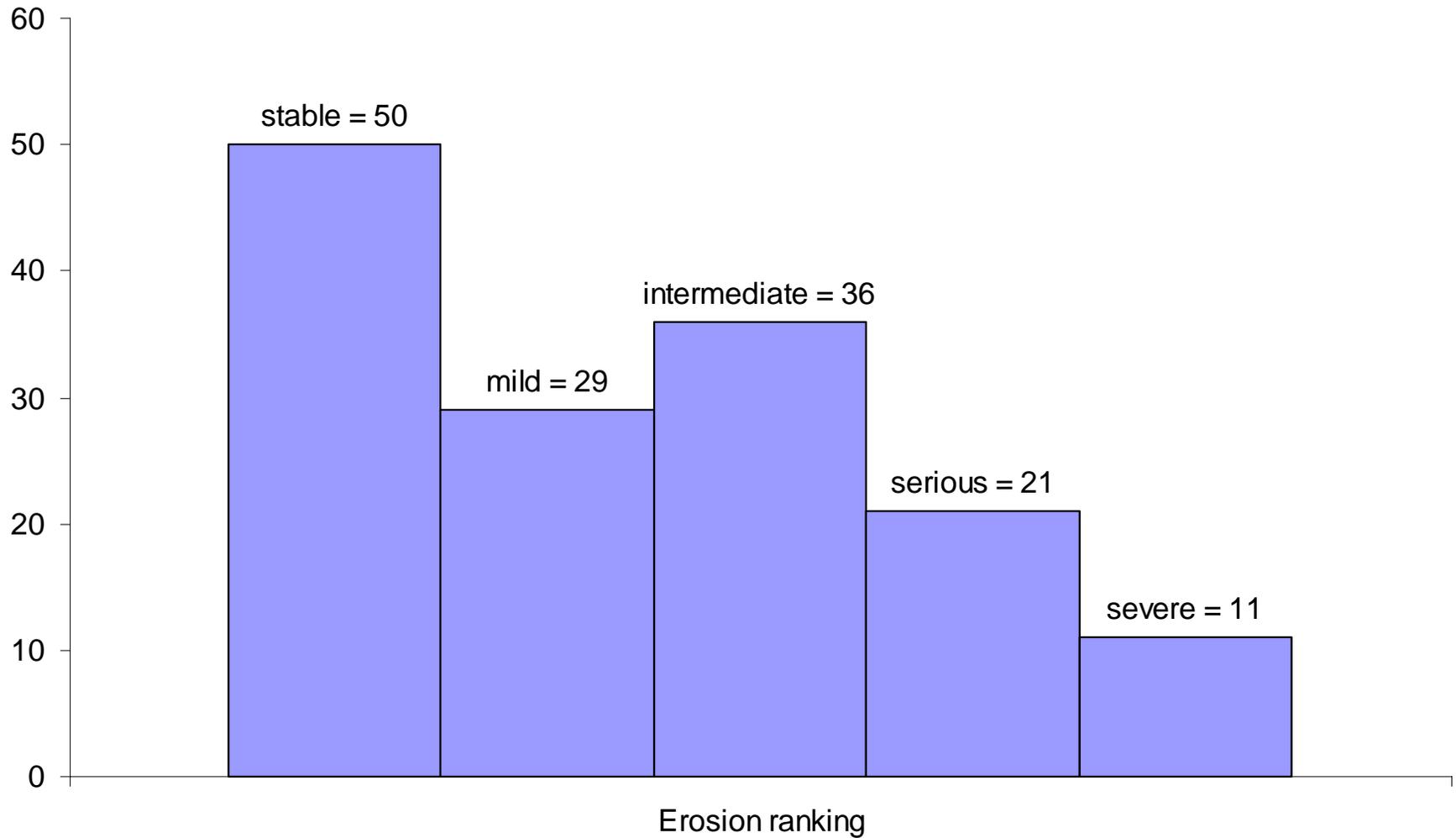
Treatment Projections:

- geoarch research questions
- archaeological research themes

Erosional Processes



Erosion Ranking



Erosion/Information Potential Matrix

Erosion →

	1	2	3	4	5
5	1	2	5	1	8
4	8	13	5	7	10
3	14	13	2	6	14
2	2	4	5	0	3
1	18	8	1	1	0



Information ↑

Geoarchaeological research questions

I. Chronostratigraphy and paleoenvironmental context:

1. Hereford inset stratigraphy vs. conformable Holocene aggradation
-was the geomorphic context of the river corridor fundamentally the same or fundamentally different in prehistory?
2. eastern Grand Canyon vs. western Grand Canyon correlations
3. is there evidence for the same erosion-depositional processes and patterns in prehistoric record (gullying, etc)?

II. Spatial relations and patterns:

1. steepness, canyon-bottom width, drainage size, travel routes
2. erosion processes and erosion intensity

Archaeological research themes

I. Environment and Economy Research Theme

1. Mobility and Sedentism

- a. Occupation Duration
- b. Site Spatial Structure
- b. Season(s) of Occupation
- c. Site Reuse
- d. Modes of Abandonment

2. Land Use

- a. Environmental Location
- b. Site Function
- c. Diet and Subsistence Practices
- d. Agricultural Pursuits

II. Population and Demography Research Theme

1. Local and Regional Population Growth and Abandonment

- a. Population Size, Growth and Decline
- b. Mechanisms of Demographic Variability
- c. Processes of Abandonment

III. Social Organization Research Theme

1. Community Development

- a. Patterns of Intersite Integration
- b. Horizontal Organization
- c. Vertical Organization

IV. Regional Relationships Research Theme

1. Cultural Affiliation and Boundaries

- a. Style
- b. Exchange
- c. Ethnogenesis

2. Processes on the Peripheries of Regional Systems