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Scientific Logic and the Environmental

Review Process

The Baseline Study In Environmental Conflict Resolution

1-1 *Introduction*

Environmental problems result from man-made insults associated with the design and management of synthetic, engineered systems nested within the natural ecosystems.

1-3 *Legislative Standards*

As a "bug picking zoologist, my understanding has come not from formal academic education, but rather from the empirical experience as chairman of the Michigan Environmental Review Board of the State of Michigan. Currently, there exists three alternative mechanisms to resolve environmental conflicts in our state.

For those classes of environmental issues where the mechanisms are known and stimulus-response curves have been scientifically established, rules and regulations can be embodied in legislation and enforced by traditional activities. In general, damage functions must be directly observable and easily measured.

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Table 1: Lakes Studied

Name
Continent
Area
Depth
Caspian Sea
Asia-Europe
143,244
3,363
Superior
North America
31,700
1,330
Victoria
Africa

26,828
270
Aral Sea
Asia
24,904
220
Huron
North America
23,000
750
Michigan
North America
22,300
923
Tanganyika
Africa
12,700
4,823
Baykal
Asia
12,162
5,315
Great Bear
North America
12,096
1,463
Malawi
Africa
11,150
2,280
Great Slave
North America
11,031
2,015
Erie
North America
9,910

210
Winnipeg
North America
9,417
60
Ontario
North America
7,550
802
Balkash
Asia
7,115
85
Ladoga
Europe
6,835
738
Chad
Africa
6,300
24
Maracaibo
South America
5,217
115
Onega
Europe
3,710
328
Eyre
Australia
3,600
4
Volta
Africa
3,276

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Titicaca
South America
3,200
922
Nicaragua
North America
3,100
230
Athabasca
North America
3,064
407
Reindeer
North America
2,568
720
Turkana
Africa
2,473
240
Issyk Kul
Asia
2,355
2,303
Name
Continent
Area
Depth