Table 1.

creel surveys

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Variable and description | Description | NR | NB | Catchment | Basin | CxB | R2 |
|  | Catchment land cover (Rodgers 2017) | | | | | | |
| Forests |  | xxx | xx | ○ | ● |  | 0.46 |
| Wetlands |  |  |  |  | ● | ● | 0.20 |
| Crops |  |  |  | ● | ● | ● | 0.39 |
|  | Reservoir physicochemical (Rodgers 2017) | | | | | | |
| Area |  |  |  | ● | ● | ● | 0.46 |
| Maximum depth |  |  |  | ● | ● | ● | 0.33 |
| Volume |  |  |  | ● | ● | ● | 0.45 |
| Shoreline irregularity |  |  |  | ● | ● |  | 0.53 |
| Discharge |  |  |  | ● | ● |  | 0.57 |
| Water residence time |  |  |  | ○ | ● |  | 0.29 |
| Total phosphorous |  |  |  | ● | ● | ● | 0.56 |
| Total nitrogen |  |  |  | ● | ● |  | 0.60 |
|  | Reservoir fish habitat impairments (Krogman & Miranda 2016) | | | | | | |
| Point source pollution |  |  |  | ● | ● | ● | 0.19 |
| Nonpoint pollution |  |  |  |  | ● |  | 0.19 |
| Excessive nutrients |  |  |  |  | ● |  | 0.17 |
| Algae blooms |  |  |  |  | ● |  | 0.13 |
| Siltation |  |  |  |  | ● |  | 0.16 |
| Lack of nutrients |  |  |  |  | ● |  | 0.24 |
| Mudflats |  |  |  |  | ● |  | 0.12 |
| Lack of connectivity |  |  |  |  | ● |  | 0.12 |
| Lack of structure |  |  |  | ○ | ● | ● | 0.18 |
| Nuisance species |  |  |  | ● | ● | ● | 0.17 |
| Anomalous water level |  |  |  | ● | ● |  | 0.15 |
| Large level fluctuations |  |  |  | ● | ● |  | 0.21 |
| IRHI |  |  |  | ● | ● |  | 0.12 |
|  | Reservoir xxxxx (Krogman & Miranda 2016) | | | | | | |
| Species richness |  |  |  | ● | ● | ● | 0.19 |
| Unwanted introductions |  |  |  | ● | ● |  | 0.30 |
| Fish kills |  |  |  |  | ● |  | 0.25 |
| Recreation ratio |  |  |  | ○ | ● | ● | 0.23 |
| Angler satisfaction |  |  |  |  | ● | ● | 0.22 |
| Fishing tournaments |  |  |  | ● | ● |  | 0.21 |
|  | Fish biomass (NRRP 1989) | | | | | | |
| Carnivores |  |  |  | ● | ● |  | 0.35 |
| Detritivores |  |  |  | ● | ● |  | 0.24 |
| Herbivores |  |  |  | ● | ● |  | 0.32 |
| Invertivores |  |  |  |  | ● | ● | 0.17 |
| Planktivores |  |  |  | ● | ● |  | 0.30 |
| All |  |  |  | ● | ● | ● | 0.33 |
|  | Biomass percent composition (NRRP 1989) | | | | | | |
| Carnivores |  |  |  | ○ | ● |  | 0.18 |
| Detritivores |  |  |  |  |  |  | 0.08 |
| Herbivores |  |  |  | ● | ● |  | 0.18 |
| Invertivores |  |  |  | ○ | ● |  | 0.17 |
| Planktivores |  |  |  |  |  |  | 0.08 |
|  |  |  |  |  |  |  |  |
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