

# Quick Guide to Ranking Relative Status/Risk Assessment for Pacific Lamprey

## RARITY 1 FACTOR GROUP

### Range Extent

- Z = Zero (no occurrences believed extant)
- A = <100 square km (< about 40 square mi)
- B = 100-250 square km (about 40-100 square mi)
- C = 250-1000 square km (about 100-400 square mi)
- D = 1000-5000 square km (about 400-2000 square mi)
- E = 5000-20,000 square km (about 2000-8000 square mi)
- F = 20,000-200,000 square km (about 8000-80,000 square mi)
- G = 200,000-2,500,000 square km (about 80,000-1,000,000 sq mi)
- H = >2,500,000 square km (> 1,000,000 square mi)

### Area of Occupancy

- X = Extinct (no occurrences extant)
- Z = Zero (no occurrences believed extant)
- A = <0.4 square km (less than about 100 acres)
- B = 0.4-4 square km (about 100-1000 acres)
- C = 4-20 square km (about 1000-5000 acres)
- D = 20-100 square km (about 5000-25,000 acres)
- E = 100-500 square km (about 25,000-125,000 acres)
- F = 500-2000 square km (about 125,000-500,000 acres)
- G = 2000-20,000 square km (about 500,000-5,000,000 acres)
- H = >20,000 square km (greater than 5,000,000 acres)

## RARITY 2 FACTOR GROUP

### Population Size

- X = Extinct, no individuals extant
- Z = Zero, no individuals believed extant
- A = 1 - 50 individuals
- B = 50 - 250 individuals
- C = 250 - 1000 individuals
- D = 1000 - 2500 individuals
- E = 2500 - 10,000 individuals
- F = 10,000 - 100,000 individuals
- G = 100,000 - 1,000,000 individuals
- H = >1,000,000 individuals

### Number of EOs (Occurrences)

- Z = 0 (zero)
- A = 1 - 5
- B = 6 - 20
- C = 21 - 80
- D = 81 - 300
- E = >300

## TREND FACTOR GROUP

### Short-Term Trend past 27 yrs or 3 generations

- A = Severely declining (decline of >70% in population, range, area occupied, and/or number of occurrences)
- B = Very rapidly declining (decline of 50-70%)
- C = Rapidly declining (decline of 30-50%)
- D = Declining (decline of 10-30%)
- E = Stable (unchanged or within +/- 10% fluctuation in population, range, area occupied, and/or number of occurrences)
- F = Increasing (increase of >10%)

## THREATS FACTOR GROUP

### Overall Threat *Automatically calculated from Scope & Severity*

- A = Substantial, imminent threat
- B = Moderate and imminent threat
- C = Substantial, non-imminent threat
- D = Moderate, non-imminent threat
- E = Localized substantial threat
- F = Widespread, low-severity threat
- G = Slightly threatened
- H = Unthreatened

### Threat Scope

- High* = 71-100% of total population, occurrences, or area affected
- Moderate* = 31-70% of total population, occurrences, or area affected
- Low* = 11-30% of total population, occurrences, or area affected
- Insignificant* = <10% of total population or area affected

### Threat Severity

- High* = near-total destruction of suitable habitat and/or functional loss of Pacific lamprey from this watershed (>100 yrs for recovery)
- Moderate* = Long-term degradation or reduction of suitable habitat and/or major decline of Pacific lamprey from watershed (50-100 yrs for recovery)
- Low* = Reversible degradation of or reduction of habitat and/or measurable reduction of Pacific lamprey in watershed (2-3 generations for recovery)
- Insignificant* = Essentially no reduction or degradation due to threats, or able to recover quickly from minor temporary loss (within 2 generations)