

Reef Fish Guide Methodology Sub-Questions
(ranked in order of category priority)

Survivability:

1. Does this species typically survive initial capture when standard practices are used (i.e. slow ascent, placed in tubs with clean water, etc.) (y/n)
2. Is the mortality rate after capture greater or less than or equal to 70% (y/n)
3. Does this species require special acclimation procedures after capture (e.g. chemical treatment, extended quarantine, etc.)? (y/n)
4. Are special acclimation procedures necessary for the hobbyist tank (y/n)
5. Does this species have a minimum tank size of greater or equal to 100 gallons for which it must be kept when it reaches adult size? (y/n)
6. Has this species shown higher than normal susceptibility to disease in captivity (y/n)
7. Does this species require a habitat other than a standard substrate or non-living ornaments (e.g. live rock, live sand substrate, special lighting, particular water conditions) (y/n)
8. If yes, is this specific habitat commercially available at a cost of \$20 per gallon or less? (y/n)
9. Is this kind of habitat threatened (y/n)
10. Is this species known to display aggressive behavior towards other animals in tanks or prey on tank mates? (y/n)
11. Does this species require specialized food that is not commonly available in local fish stores (y/n)
12. Is this species considered to be for "advanced" aquarists only (y/n)
13. Is the animal venomous or dangerous to humans or other tankmates? (y/n)
14. Does this species generally survive for a period longer than 2 years in captivity (y/n)
15. Can males and females of this species be housed together (y/n)

Abundance/Productivity:

1. Are there quantitative data available on the population status of this species (y/n)
2. Is this species endemic where it is collected? (y/n)
3. Is this a solitary fish? (y/n)
4. If the species is endemic, is there any regulation for collection in place (y/n)
5. Does this species spawn on a frequent basis (greater than 1x/month) (y/n)
6. Does this species utilize mass spawning as a breeding strategy? (y/n)
7. If yes, is this species an egg layer (y/n)
8. Is this species a mouth-brooder? (y/n)
9. Is this a keystone species (i.e. top predator, filling an exclusive niche on the reef, etc.)?(y/n)
10. Does the species have a commensal/obligate relationship with another species? (y/n)
11. If yes, is that species also collected for aquariums? (y/n)
12. If yes, are both species usually sold together? (y/n)
13. Is this species on the IUCN Red List or mentioned elsewhere as at risk of becoming endangered or depleted? (y/n)

Captive bred/reared availability and potential:

1. Has this species ever been bred in captivity (y/n)
2. If yes, is it produced by more than one breeder (y/n)
3. Is this species widely available as captive bred through traditional means (LFS, mail-order, etc.) (y/n)
4. Has a commercially available food been identified for the larvae of this species (y/n)
5. Can production be increased within 180 days (y/n)
6. If no, is the time frame to increase production greater than or equal to 365 days (y/n)
7. Do production facilities harm the environment (e.g. coastal pollution, invasive species risk, etc.) (y/n)
8. Are breeding facilities regulated (y/n)
9. Is this species available through captive-rearing (larval collection in the wild) (y/n)
10. If yes, is this captive-reared species currently available in the U.S. (y/n)
11. If yes, is this species widely available through traditional means (LFS, mail-order, etc.) (y/n)
12. Can captive-breeding increase for this fish with additional resources (i.e. is funding needed to push research) (y/n)

Collection Methods:

1. Is this species collected with non-destructive techniques (e.g. hand nets, slurp gun, etc.) (y/n)
2. If yes, is collection being done using nets with mesh size under 2.5 cm? (y/n)
3. Is this species collected in deep water (> 60 feet/20 meters) (y/n)
4. If yes, is the air bladder typically punctured to prevent rupture (y/n)
5. If yes, is the survival rate greater than or equal to 70% post-collection (y/n)
6. Are there any regulations for collection (e.g. prohibition on use of cyanide) (y/n)
7. Are these regulations enforced (y/n)
8. Is this fish available through any certification schemes (i.e. MAC) (y/n)
9. If yes, is this species widely available through traditional means (LFS, mail-order, etc.) (y/n)
10. Is this species collected in an area that uses cyanide for capture (y/n)
11. If yes, is this species collected in other areas of the same country that DOES NOT use cyanide for capture? (y/n)
12. Is collection of this species causing a measurable, sustained decrease in local populations of the target species (y/n)