

TABLE S1 | Number of individuals captured for each fish species. We selected only species with more than 60 individuals caught for the analysis of multi-mesh selectivity. A total of 14 species were selected, and their names are highlighted in bold in the table.

| Species | Order | Number of individuals |
|--|------------------------|-----------------------|
| <i>Acestrorhynchus pantaneiro</i> | Characiformes | 49 |
| <i>Apareiodon affinis</i> | Characiformes | 264 |
| <i>Astyanax abramis</i> | Characiformes | 25 |
| <i>Psalidodon</i> spp. | Characiformes | 526 |
| <i>Brycon orbignyus</i> | Characiformes | 2 |
| <i>Bryconamericus iheringii</i> | Characiformes | 1 |
| <i>Piabarchus stramineus</i> | Characiformes | 296 |
| <i>Characidium zebra</i> | Characiformes | 2 |
| <i>Characidium tenue</i> | Characiformes | 1 |
| <i>Charax stenopterus</i> | Characiformes | 3 |
| <i>Cynopotamus argenteus</i> | Characiformes | 79 |
| <i>Cyphocharax platanus</i> | Characiformes | 254 |
| <i>Cyphocharax spilotos</i> | Characiformes | 9 |
| <i>Cyphocharax voga</i> | Characiformes | 52 |
| <i>Galeocharax humeralis</i> | Characiformes | 9 |
| <i>Odontostilbe pequirá</i> | Characiformes | 56 |
| <i>Hoplias argentinensis</i> | Characiformes | 4 |
| <i>Megaleporinus obtusidens</i> | Characiformes | 157 |
| <i>Brevidens striatus</i> | Characiformes | 17 |
| <i>Oligosarcus oligolepis</i> | Characiformes | 4 |
| <i>Oligosarcus</i> sp. | Characiformes | 9 |
| <i>Prochilodus lineatus</i> | Characiformes | 63 |
| <i>Pygocentrus nattereri</i> | Characiformes | 1 |
| <i>Rhaphiodon vulpinus</i> | Characiformes | 16 |
| <i>Salminus brasiliensis</i> | Characiformes | 13 |
| <i>Schizodon borelli</i> | Characiformes | 2 |
| <i>Schizodon platae</i> | Characiformes | 5 |
| <i>Serrasalmus maculatus</i> | Characiformes | 32 |
| <i>Steindachnerina brevipinna</i> | Characiformes | 12 |
| <i>Eigenmannia virescens</i> | Gymnotiformes | 2 |
| <i>Crenicichla missionera</i> | Cichliformes | 4 |
| <i>Pachyurus bonariensis</i> | Acanthuriformes | 260 |
| <i>Odontesthes humensis</i> | Atheriniformes | 20 |
| <i>Odontesthes perugiae</i> | Atheriniformes | 25 |
| <i>Lycengraulis grossidens</i> | Clupeiformes | 11 |



TABLE S1 | (Continued)

| Species | Order | Number of individuals |
|---|---------------------|-----------------------|
| <i>Pellona flavipinnis</i> | Clupeiformes | 55 |
| <i>Ramnogaster melanostoma</i> | Clupeiformes | 5 |
| <i>Sorubim lima</i> | Siluriformes | 1 |
| <i>Trachelyopterus galeatus</i> | Siluriformes | 6 |
| <i>Trachelyopterus teaguei</i> | Siluriformes | 2 |
| <i>Ageneiosus inermis</i> | Siluriformes | 1 |
| <i>Ageneiosus militaris</i> | Siluriformes | 3 |
| <i>Ageneiosus</i> sp. | Siluriformes | 2 |
| <i>Auchenipterus osteomystax</i> | Siluriformes | 7 |
| <i>Bunocephalus</i> sp. | Siluriformes | 1 |
| <i>Paravandelia oxyptera</i> | Siluriformes | 1 |
| <i>Hoplosternum littorale</i> | Siluriformes | 1 |
| <i>Hypostomus commersoni</i> | Siluriformes | 3 |
| <i>Hypostomus laplatae</i> | Siluriformes | 2 |
| <i>Iheringichthys labrosus</i> | Siluriformes | 955 |
| <i>Loricaria</i> sp. | Siluriformes | 2 |
| <i>Loricariichthys anus</i> | Siluriformes | 1 |
| <i>Loricariichthys edentatus</i> | Siluriformes | 47 |
| <i>Loricariichthys melanocheilus</i> | Siluriformes | 168 |
| <i>Loricariichthys</i> sp. | Siluriformes | 10 |
| <i>Luciopimelodus pati</i> | Siluriformes | 12 |
| <i>Otocinclus flexilis</i> | Siluriformes | 1 |
| <i>Paraloricaria vetula</i> | Siluriformes | 50 |
| <i>Parapimelodus valenciennis</i> | Siluriformes | 300 |
| <i>Pimelodella australis</i> | Siluriformes | 2 |
| <i>Pimelodella gracilis</i> | Siluriformes | 146 |
| <i>Pimelodus absconditus</i> | Siluriformes | 5 |
| <i>Pimelodus maculatus</i> | Siluriformes | 27 |
| <i>Pimelodus</i> sp. | Siluriformes | 105 |
| <i>Platanichthys platana</i> | Clupeiformes | 22 |
| <i>Pseudopimelodus mangurus</i> | Siluriformes | 1 |
| <i>Pseudoplatystoma corruscans</i> | Siluriformes | 1 |
| <i>Pterodoras granulosus</i> | Siluriformes | 6 |
| <i>Rhamdia quelen</i> | Siluriformes | 1 |
| <i>Rhineloricaria</i> sp. | Siluriformes | 1 |
| <i>Rhinodoras dorbignyi</i> | Siluriformes | 10 |
| <i>Ricola macrops</i> | Siluriformes | 107 |

TABLE S2 | Mean and standard deviation of length of fish captured by each mesh size. *Apareiodon affinis*, *Psalidodon* spp., *Piabarchus stramineus*, *Cynopotamus argenteus*, *Cyphocharax platanus*, *Iheringichthys labrosus*, *Megaleporinus obtusidens*, *Loricariichthys melanocheilus*, *Pachyurus bonariensis*, *Parapimelodus valenciennis*, *Pimelodella gracilis*, *Pimelodus* sp., *Prochilodus lineatus*, and *Ricola macrops*.

| Mean (± SD) length of gillnet catches | | | | | | |
|---------------------------------------|-------------------|------------------------|----------------------|---------------------|--------------------|--------------------|
| Mesh size-mm | <i>A. affinis</i> | <i>Psalidodon</i> spp. | <i>P. stramineus</i> | <i>C. argenteus</i> | <i>C. platanus</i> | <i>I. labrosus</i> |
| 5 | 21.2±14.1 | 36.6±17.0 | 39.6±2.4 | 161.2±41.0 | 126.6±2.8 | 101.1±25.2 |
| 6.25 | 67.8±16.4 | 71.7±18.9 | 49.4±3.8 | 151.6±19.9 | - | 94.4±30.9 |
| 8 | 72.9±9.91 | 58.1±11.6 | 58.6±4.5 | - | 110.2±25.3 | 98.12±36.6 |
| 10 | 101.5±9.3 | 67.1±7.5 | 71.2±6.5 | 115.1±31.2 | - | 97.5±32.4 |
| 12.5 | 101.1±9.7 | 78.0±8.0 | 66.1±9.6 | 135.1±42.4 | 109.4±27.1 | 112.5±64.1 |
| 15.5 | 116.2±8.4 | 97.5±9.2 | - | 136.1±40.3 | 111.1±14.6 | 122.3±23.8 |
| 19.5 | - | 91.6±5.7 | - | 153.4±19.8 | 126.4±8.9 | 154.6±26.4 |
| 24 | 126.4±9.8 | 96.7±12.7 | - | 182.9±27.2 | 142.1±6.8 | 164.1±29.2 |
| 29 | - | 81.7±10.2 | - | 185.8±31.9 | 258.2±2.8 | 173.8±47.1 |
| 35 | - | - | - | 225.3±17.8 | 230.1±10.4 | 155.9±53.9 |
| 43 | - | - | - | - | 131.1±0 | 161.6±77.5 |
| 55 | 101.9±15.0 | - | 81.9±1.4 | 187.5±60.1 | - | 80.4±44.7 |

| Mean (± SD) length of gillnet catches | | | | | | |
|---------------------------------------|----------------------|-------------------------|-----------------------|------------------------|--------------------|----------------------|
| Mesh size-mm | <i>M. obtusidens</i> | <i>L. melanocheilus</i> | <i>P. bonariensis</i> | <i>P. valenciennis</i> | <i>P. gracilis</i> | <i>Pimelodus</i> sp. |
| 5 | - | 112.6±85.5 | - | 140.2±91.2 | 61.5±29.43 | 120.2±90.12 |
| 6.25 | 160.1±60.1 | 171.2±91.3 | 95.1±56.6 | 82.2±53.6 | 61.6±21.5 | 116.7±62.6 |
| 8 | - | 157.7±74.1 | 62.7±19.7 | 84.3±49.4 | 70.7±30.9 | 117.8±62.2 |
| 10 | 160.1±50.1 | 187.1±62.5 | 73.7±24.1 | 76.6±15.8 | 80.7±16.6 | 123.3±36.3 |
| 12.5 | 155.3±67.6 | 189.2±56.8 | 95.8±21.2 | 98.4±15.9 | 100.1±8.9 | 128.3±29.3 |
| 15.5 | 160.1±83.5 | 210.8±42.5 | 108.9±12.1 | 133.1±29.6 | 97.3±35.3 | 127.2±13.7 |
| 19.5 | 174.5±55.9 | 237.3±39.7 | 129.2±12.1 | 162.3±24.1 | - | 130.7±12.2 |
| 24 | 170.6±28.5 | 257.3±22.2 | 139.6±33.9 | 178.3±27.4 | 140.1±9.1 | 146.9±8.87 |
| 29 | 210.2±35.5 | 249.1±38.6 | 139.1±57.9 | 192.6±30.9 | - | - |
| 35 | 240.2±34.2 | 263.5±14.7 | 161.4±60.8 | 184.5±79.5 | 250.1±80.1 | 251.6±46.4 |
| 43 | 285.4±80.2 | 230.2±82.61 | 132.6±7.5 | - | - | 267.5±17.6 |
| 55 | 210.1±59.4 | - | - | 135.5±71.4 | 70.5±20.7 | - |

| Mean (± SD) length of gillnet catches | | |
|---------------------------------------|--------------------|-------------------|
| Mesh size-mm | <i>P. lineatus</i> | <i>R. macrops</i> |
| 5 | - | 174.5±71.7 |
| 6.25 | - | 191.3±67.5 |
| 8 | - | 147.4±46.1 |
| 10 | - | 167.7±35.8 |
| 12.5 | 165.4±14.1 | 172.7±36.5 |
| 15.5 | - | 165.2±31.5 |
| 19.5 | 135.6±4.4 | 211.3±25.3 |
| 24 | 145.7±21.2 | 207.7±22.7 |
| 29 | 173.8±16.1 | 217.3±22.6 |
| 35 | 190.6±14.3 | 224.6±50.5 |
| 43 | 231.4±33.8 | - |
| 55 | - | - |

TABLE S3 | Overall probability of retention (Rel S_L value) values for the “Nordic multimesh gillnet” derived from Normal Scale for (*Apareiodon affinis* and *Piabarchus stramineus*), Lognormal for (*Psalidodon* spp., *Cynopotamus argenteus*, *Megaleporinus obtusidens*, *Pachyurus bonariensis*, *Iheringichthys labrosus*, *Parapimelodus valenciennis*, *Pimelodella gracilis*, and *Loricariichthys melanocheilus*). Normal Location for (*Cyphocharax platanus*, *Prochilodus lineatus*, *Pimelodus* sp., and *Ricola macrops*).

| Overall probability of retention (Rel S_L value) | | | | |
|--|-------------------|------------------------|----------------------|---------------------|
| Length class (mm) | <i>A. affinis</i> | <i>Psalidodon</i> spp. | <i>P. stramineus</i> | <i>C. argenteus</i> |
| 30–39 | 0.52 | 0.63 | 0.83 | 0.58 |
| 40–49 | 0.72 | 0.88 | 1.00 | 0.57 |
| 50–59 | 0.91 | 0.89 | 0.95 | 0.74 |
| 60–69 | 0.97 | 0.93 | 0.97 | 0.84 |
| 70–79 | 0.98 | 0.94 | 1.00 | 0.88 |
| 80–89 | 0.99 | 0.95 | 0.81 | 0.91 |
| 90–99 | 0.99 | 0.95 | 0.78 | 0.92 |
| 100–109 | 1.00 | 0.94 | 0.67 | 0.93 |
| 110–119 | 1.00 | 0.94 | 0.58 | 0.94 |
| 120–129 | 1.00 | 0.96 | 0.34 | 0.95 |
| 130–139 | 1.00 | 1.00 | 0.23 | 0.96 |
| 140–149 | - | 0.98 | 0.15 | 0.97 |
| 150–159 | - | 0.95 | - | 0.97 |
| 160–169 | - | - | - | 0.98 |
| 170–179 | - | - | - | 0.99 |
| 180–189 | - | - | - | 0.99 |
| 190–199 | - | - | - | 1.00 |
| 200–209 | - | - | - | 1.00 |
| 210–219 | - | - | - | 1.00 |
| 220–229 | - | - | - | 1.00 |
| 230–239 | - | - | - | 0.99 |
| 240–249 | - | - | - | 0.98 |
| 250–259 | - | - | - | - |
| 260–269 | - | - | - | - |
| 270–279 | - | - | - | - |
| 280–289 | - | - | - | - |
| 290–299 | - | - | - | - |
| 300–309 | - | - | - | - |
| 310–319 | - | - | - | - |
| 320–329 | - | - | - | - |
| 330–339 | - | - | - | - |
| 340–349 | - | - | - | - |
| 350–359 | - | - | - | - |
| 360–369 | - | - | - | - |
| 370–379 | - | - | - | - |
| 380–389 | - | - | - | - |
| 390–399 | - | - | - | - |
| 400–409 | - | - | - | - |
| 410–419 | - | - | - | - |
| 420–429 | - | - | - | - |
| 430–439 | - | - | - | - |



TABLE S3 I (Continued)

| Length class (mm) | Overall probability of retention (Rel S_L value) | | | |
|-------------------|--|----------------------|-------------------------|-----------------------|
| | <i>I. labrosus</i> | <i>M. obtusidens</i> | <i>L. melanocheilus</i> | <i>P. bonariensis</i> |
| 30–39 | 0.13 | 0.58 | 0.02 | 0.55 |
| 40–49 | 0.12 | 0.61 | 0.15 | 0.76 |
| 50–59 | 0.19 | 0.78 | 0.32 | 0.84 |
| 60–69 | 0.22 | 0.85 | 0.38 | 0.86 |
| 70–79 | 0.80 | 0.89 | 0.42 | 0.88 |
| 80–89 | 0.86 | 0.90 | 0.72 | 0.89 |
| 90–99 | 0.90 | 0.92 | 0.79 | 0.90 |
| 100–109 | 0.92 | 0.92 | 0.84 | 0.90 |
| 110–119 | 0.94 | 0.93 | 0.87 | 0.91 |
| 120–129 | 0.95 | 0.94 | 0.89 | 0.92 |
| 130–139 | 0.96 | 0.95 | 0.91 | 0.93 |
| 140–149 | 0.97 | 0.96 | 0.92 | 0.95 |
| 150–159 | 0.98 | 0.97 | 0.93 | 0.96 |
| 160–169 | 0.99 | 0.98 | 0.94 | 0.98 |
| 170–179 | 0.99 | 0.99 | 0.95 | 0.99 |
| 180–189 | 1.00 | 0.99 | 0.95 | 1.00 |
| 190–199 | 1.00 | 1.00 | 0.96 | 1.00 |
| 200–209 | 1.00 | 1.00 | 0.96 | 1.00 |
| 210–219 | 1.00 | 1.00 | 0.97 | 0.99 |
| 220–229 | 1.00 | 1.00 | 0.97 | 0.98 |
| 230–239 | 1.00 | 0.99 | 0.98 | - |
| 240–249 | 0.99 | 0.98 | 0.98 | - |
| 250–259 | - | 0.97 | 0.99 | - |
| 260–269 | - | 0.96 | 0.99 | - |
| 270–279 | - | 0.95 | 0.99 | - |
| 280–289 | - | 0.93 | 1.00 | - |
| 290–299 | - | 0.91 | 1.00 | - |
| 300–309 | - | 0.89 | - | - |
| 310–319 | - | 0.87 | - | - |
| 320–329 | - | 0.85 | - | - |
| 330–339 | - | - | - | - |
| 340–349 | - | - | - | - |
| 350–359 | - | - | - | - |
| 360–369 | - | - | - | - |
| 370–379 | - | - | - | - |
| 380–389 | - | - | - | - |
| 390–399 | - | - | - | - |
| 400–409 | - | - | - | - |
| 410–419 | - | - | - | - |
| 420–429 | - | - | - | - |
| 430–439 | - | - | - | - |



TABLE S3 | (Continued)

| Overall probability of retention (Rel S_j value) | | | | |
|--|--------------------|----------------------|--------------------|-------------------|
| Length class (mm) | <i>P. gracilis</i> | <i>Pimelodus sp.</i> | <i>P. lineatus</i> | <i>R. macrops</i> |
| 30–39 | 0.05 | 0.16 | 0.82 | 0.10 |
| 40–49 | 0.22 | 0.18 | 0.96 | 0.15 |
| 50–59 | 0.21 | 0.22 | 1.00 | 0.20 |
| 60–69 | 0.34 | 0.98 | 1.00 | 0.825 |
| 70–79 | 0.85 | 1.00 | 0.97 | 0.29 |
| 80–89 | 0.87 | 0.99 | 0.91 | 0.92 |
| 90–99 | 0.89 | 0.96 | 0.84 | 0.95 |
| 100–109 | 0.89 | 0.91 | 0.77 | 0.97 |
| 110–119 | 0.89 | 0.85 | 0.71 | 0.99 |
| 120–129 | 0.90 | 0.79 | 0.66 | 1.00 |
| 130–139 | 0.90 | 0.74 | 0.61 | 1.00 |
| 140–149 | 0.90 | 0.69 | 0.57 | 1.00 |
| 150–159 | 0.91 | 0.64 | 0.53 | 0.99 |
| 160–169 | 0.91 | 0.61 | 0.49 | 0.98 |
| 170–179 | 0.92 | 0.58 | 0.46 | 0.96 |
| 180–189 | 0.94 | 0.55 | 0.42 | 0.94 |
| 190–199 | 0.96 | 0.53 | 0.39 | 0.92 |
| 200–209 | 0.97 | 0.51 | 0.36 | 0.89 |
| 210–219 | 0.98 | 0.49 | 0.33 | 0.86 |
| 220–229 | 0.99 | 0.46 | 0.31 | 0.84 |
| 230–239 | 1.00 | 0.44 | 0.28 | 0.81 |
| 240–249 | 1.00 | 0.42 | 0.26 | 0.78 |
| 250–259 | 1.00 | 0.40 | 0.25 | 0.76 |
| 260–269 | - | 0.38 | 0.24 | 0.73 |
| 270–279 | - | 0.36 | 0.22 | - |
| 280–289 | - | 0.34 | 0.19 | - |
| 290–299 | - | 0.33 | 0.17 | - |
| 300–309 | - | - | - | - |
| 310–319 | - | - | - | - |
| 320–329 | - | - | - | - |
| 330–339 | - | - | - | - |
| 340–349 | - | - | - | - |
| 350–359 | - | - | - | - |
| 360–369 | - | - | - | - |
| 370–379 | - | - | - | - |
| 380–389 | - | - | - | - |
| 390–399 | - | - | - | - |
| 400–409 | - | - | - | - |
| 410–419 | - | - | - | - |
| 420–429 | - | - | - | - |
| 430–439 | - | - | - | - |

TABLE S4 | Relative probability of retention (Rel S_r value) values for the “Nordic multimesh gillnet” fitted to each of 12 mesh size individually (5, 6.25, 8, 10, 12.5, 15.5, 19.5, 24, 29, 35, 43, and 55 mm), derived from Normal Scale for (*Apareiodon affinis* and *Piabarchus stramineus*). Lognormal for (*Cynopotamus argenteus*, *Iheringichthys labrosus*, *Megaleporinus obtusidens*, *Loricariichthys melanocheilus*, *Pachyurus bonariensis*, *Parapimelodus valenciennis* and *Pimelodella gracilis*). Normal Location for (*Cyphocharax platanus*, *Prochilodus lineatus*, *Pimelodus* sp., and *Ricola macrops*) and Gamma for (*Psalidodon* spp.).

| Relative probability of retention (Rel S_r value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|--|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_r) | <i>Psalidodon</i> spp. Relative Retention (S_r) | <i>P. stramineus</i> Relative Retention (S_r) | <i>C. argenteus</i> Relative Retention (S_r) | <i>C. platanus</i> Relative Retention (S_r) | <i>I. labrosus</i> Relative Retention (S_r) | <i>M. obtusidens</i> Relative Retention (S_r) | <i>L. melanocheilus</i> Relative Retention (S_r) | <i>P. bonariensis</i> Relative Retention (S_r) | <i>P. valenciennis</i> Relative Retention (S_r) | <i>P. gracilis</i> Relative Retention (S_r) | <i>Pimelodus</i> sp. Relative Retention (S_r) | <i>P. lineatus</i> Relative Retention (S_r) | <i>R. macrops</i> Relative Retention (S_r) |
| 30-39 | 5 | 0.13 | 0.7 | - | - | 0.38 | - | - | - | - | - | - | 0.63 | 0.56 | 0.85 |
| 40-49 | 5 | 1 | - | - | 0.17 | 0.64 | 0.18 | 0.15 | 0.12 | 0.12 | - | - | 0.78 | 0.78 | 0.9 |
| 50-59 | 5 | 0.78 | - | - | 0.74 | 0.89 | 0.61 | 0.77 | 0.15 | 1 | 0.66 | 0.48 | 0.91 | 0.95 | 0.94 |
| 60-69 | 5 | 0.32 | 0.17 | 0.27 | 1 | 1 | 0.94 | 1 | 0.47 | 0.84 | 1 | 1 | 0.99 | 1 | 0.97 |
| 70-79 | 5 | 0.1 | - | 1 | 0.82 | 0.92 | 1 | 0.74 | 0.81 | 0.28 | 0.71 | 0.85 | 1 | 0.91 | 0.99 |
| 80-89 | 5 | 0.02 | - | 0.03 | 0.53 | 0.69 | 0.89 | 0.41 | 0.99 | - | 0.35 | 0.46 | 0.94 | 0.72 | 1 |
| 90-99 | 5 | - | - | - | 0.3 | 0.42 | 0.71 | 0.2 | 1 | - | 0.14 | 0.2 | 0.83 | 0.49 | 1 |
| 100-109 | 5 | - | - | - | 0.16 | 0.21 | 0.54 | - | 0.89 | - | - | - | 0.68 | 0.29 | 0.98 |
| 110-119 | 5 | - | - | - | - | - | 0.39 | - | 0.74 | - | - | - | 0.52 | 0.15 | 0.95 |
| 120-129 | 5 | - | - | - | - | 0.27 | 0.28 | - | 0.58 | - | - | - | 0.38 | - | 0.91 |
| 130-139 | 5 | - | - | - | - | - | 0.2 | - | 0.43 | - | - | - | 0.25 | - | 0.87 |
| 140-149 | 5 | - | - | - | - | - | 0.14 | - | 0.32 | - | - | - | 0.16 | - | 0.81 |
| 150-159 | 5 | - | - | - | - | - | 0.1 | - | 0.23 | - | - | - | - | - | 0.75 |
| 160-169 | 5 | - | - | - | - | - | 0.6 | - | 0.16 | - | - | - | - | - | 0.69 |
| 170-179 | 5 | - | - | - | - | - | 0.47 | - | 0.12 | - | - | - | - | - | 0.62 |
| 180-189 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.56 |
| 190-199 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.49 |
| 200-209 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.43 |
| 210-219 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.37 |
| 220-229 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.31 |
| 230-239 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.26 |
| 240-249 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.22 |
| 250-259 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.18 |
| 260-269 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.15 |
| 270-279 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.12 |
| 280-289 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 290-299 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300-309 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310-319 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320-329 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330-339 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340-349 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350-359 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 360-369 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 370-379 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 380-389 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 390-399 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|---|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psalidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelilus</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 400-409 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410-419 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 420-429 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 430-439 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30-39 | 6.25 | - | - | - | - | 0.22 | - | - | - | - | - | - | 0.49 | 0.41 | 0.78 |
| 40-49 | 6.25 | - | - | 0.58 | - | 0.43 | - | - | - | - | 0.97 | - | 0.64 | 0.63 | 0.84 |
| 50-59 | 6.25 | 0.52 | 0.31 | 0.83 | 0.39 | 0.7 | 0.34 | 0.38 | - | 0.41 | 0.25 | 0.13 | 0.8 | 0.85 | 0.89 |
| 60-69 | 6.25 | 1 | 1 | 0.12 | 0.84 | 0.93 | 0.69 | 0.87 | 0.2 | 1 | 0.79 | 0.62 | 0.92 | 0.99 | 0.93 |
| 70-79 | 6.25 | 0.3 | 0.18 | 0.52 | 1 | 1 | 0.93 | 1 | 0.47 | 0.77 | 1 | 1 | 0.99 | 1 | 0.97 |
| 80-89 | 6.25 | 0.87 | - | 1 | 0.87 | 0.88 | 1 | 0.8 | 0.74 | 0.34 | 0.79 | 0.91 | 1 | 0.87 | 0.99 |
| 90-99 | 6.25 | - | - | - | 0.64 | 0.62 | 0.94 | 0.53 | 0.93 | 0.11 | 0.48 | 0.61 | 0.94 | 0.66 | 1 |
| 100-109 | 6.25 | 0.02 | - | - | 0.43 | 0.36 | 0.81 | 0.31 | 1 | - | 0.25 | 0.33 | 0.82 | 0.43 | 1 |
| 110-119 | 6.25 | - | - | - | 0.27 | 0.17 | 0.67 | 0.17 | 0.97 | - | 0.12 | 0.16 | 0.67 | 0.25 | 0.99 |
| 120-129 | 6.25 | - | - | - | 0.16 | - | 0.53 | - | 0.88 | - | 0.05 | - | 0.51 | 0.12 | 0.96 |
| 130-139 | 6.25 | - | - | - | 0.09 | - | 0.41 | - | 0.76 | - | 0.23 | - | 0.37 | - | 0.96 |
| 140-149 | 6.25 | - | - | - | 0.54 | - | 0.32 | - | 0.63 | - | - | - | 0.24 | - | 0.93 |
| 150-159 | 6.25 | - | - | - | - | - | 0.24 | - | 0.51 | - | - | - | 0.15 | - | 0.88 |
| 160-169 | 6.25 | - | - | - | - | - | 0.18 | - | 0.4 | - | - | - | - | - | 0.83 |
| 170-179 | 6.25 | - | - | - | - | - | 0.14 | - | 0.31 | - | - | - | - | - | 0.77 |
| 180-189 | 6.25 | - | - | - | - | - | 0.1 | - | 0.24 | - | - | - | - | - | 0.71 |
| 190-199 | 6.25 | - | - | - | - | - | - | - | 0.19 | - | - | - | - | - | 0.64 |
| 200-209 | 6.25 | - | - | - | - | - | - | - | 0.14 | - | - | - | - | - | 0.58 |
| 210-219 | 6.25 | - | - | - | - | - | - | - | 0.11 | - | - | - | - | - | 0.51 |
| 220-229 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.45 |
| 230-239 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.39 |
| 240-249 | 6.25 | - | - | - | - | - | - | - | 0.46 | - | - | - | - | - | 0.33 |
| 250-259 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.28 |
| 260-269 | 6.25 | - | - | - | - | - | - | - | 0.26 | - | - | - | - | - | 0.23 |
| 270-279 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.19 |
| 280-289 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.15 |
| 290-299 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.12 |
| 300-309 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 310-319 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320-329 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330-339 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340-349 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350-359 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 360-369 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 370-379 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 380-389 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 390-399 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 400-409 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410-419 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 420-429 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 430-439 | 6.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30-39 | 8 | - | - | - | - | - | - | - | - | - | - | - | 0.3 | 0.23 | 0.66 |
| 40-49 | 8 | - | - | - | - | 0.2 | - | - | - | - | - | - | 0.44 | 0.41 | 0.73 |



TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|---|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psatidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelilus</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 50-59 | 8 | 0.46 | - | 0.81 | 0.12 | 0.41 | 0.13 | 0.1 | - | 0.65 | 0.44 | 0.15 | 0.6 | 0.63 | 0.79 |
| 60-69 | 8 | 0.96 | - | 0.67 | 0.45 | 0.68 | 0.38 | 0.44 | 0.55 | 0.52 | 0.31 | 0.17 | 0.75 | 0.85 | 0.85 |
| 70-79 | 8 | 1 | 0.43 | 0.2 | 0.82 | 0.92 | 0.67 | 0.83 | 0.18 | 1 | 0.75 | 0.57 | 0.89 | 0.99 | 0.9 |
| 80-89 | 8 | 0.77 | 1 | 0.37 | 1 | 1 | 0.88 | 1 | 0.38 | 0.93 | 1 | 0.92 | 0.97 | 1 | 0.94 |
| 90-99 | 8 | 0.47 | 0.66 | 1 | 0.98 | 0.89 | 0.99 | 0.93 | 0.61 | 0.57 | 0.94 | 1 | 1 | 0.87 | 0.97 |
| 100-109 | 8 | 0.24 | 0.17 | 0.41 | 0.83 | 0.64 | 1 | 0.73 | 0.8 | 0.27 | 0.72 | 0.84 | 0.96 | 0.66 | 0.99 |
| 110-119 | 8 | 0.11 | 0.02 | - | 0.64 | 0.38 | 0.94 | 0.52 | 0.94 | 0.11 | 0.48 | 0.59 | 0.86 | 0.43 | 1 |
| 120-129 | 8 | - | - | - | 0.47 | 0.18 | 0.85 | 0.34 | 1 | 0.4 | 0.29 | 0.37 | 0.71 | 0.25 | 1 |
| 130-139 | 8 | - | - | - | 0.33 | 0.71 | 0.73 | 0.22 | 1 | - | 0.16 | 0.22 | 0.55 | 0.12 | 0.98 |
| 140-149 | 8 | - | - | - | 0.22 | - | 0.62 | 0.13 | 0.95 | - | 0.9 | 0.12 | 0.4 | - | 0.96 |
| 150-159 | 8 | - | - | - | 0.15 | - | 0.52 | - | 0.87 | - | 0.05 | - | 0.27 | - | 0.92 |
| 160-169 | 8 | - | - | - | 0.1 | - | 0.42 | - | 0.77 | - | 0.02 | - | 0.17 | - | 0.87 |
| 170-179 | 8 | - | - | - | - | - | 0.34 | - | 0.67 | - | 0.13 | - | 0.1 | - | 0.82 |
| 180-189 | 8 | - | - | - | - | - | 0.28 | - | 0.57 | - | - | - | - | - | 0.76 |
| 190-199 | 8 | - | - | - | - | - | 0.22 | - | 0.48 | - | - | - | - | - | 0.69 |
| 200-209 | 8 | - | - | - | - | - | 0.18 | - | 0.4 | - | - | - | - | - | 0.63 |
| 210-219 | 8 | - | - | - | - | - | 0.14 | - | 0.33 | - | - | - | - | - | 0.56 |
| 220-229 | 8 | - | - | - | - | - | 0.11 | - | 0.27 | - | - | - | - | - | 0.5 |
| 230-239 | 8 | - | - | - | - | - | - | - | 0.22 | - | - | - | - | - | 0.43 |
| 240-249 | 8 | - | - | - | - | - | - | - | 0.18 | - | - | - | - | - | 0.37 |
| 250-259 | 8 | - | - | - | - | - | - | - | 0.14 | - | - | - | - | - | 0.32 |
| 260-269 | 8 | - | - | - | - | - | - | - | 0.12 | - | - | - | - | - | 0.27 |
| 270-279 | 8 | - | - | - | - | - | - | - | 0.93 | - | - | - | - | - | 0.22 |
| 280-289 | 8 | - | - | - | - | - | - | - | 0.75 | - | - | - | - | - | 0.18 |
| 290-299 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.15 |
| 300-309 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.12 |
| 310-319 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 320-329 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 330-339 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340-349 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350-359 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 360-369 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 370-379 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 380-389 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 390-399 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 400-409 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410-419 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 420-429 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 430-439 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30-39 | 10 | - | - | - | - | - | - | - | - | - | - | - | 0.16 | 0.1 | 0.53 |
| 40-49 | 10 | - | - | - | - | - | - | - | - | - | - | - | 0.25 | 0.21 | 0.59 |
| 50-59 | 10 | 0.09 | - | - | - | 0.17 | 0.45 | - | - | - | - | - | 0.37 | 0.38 | 0.66 |
| 60-69 | 10 | 0.37 | 0.52 | - | 0.17 | 0.36 | 0.17 | 0.15 | - | 0.11 | 0.73 | - | 0.52 | 0.6 | 0.73 |
| 70-79 | 10 | 0.75 | 0.32 | - | 0.45 | 0.62 | 0.38 | 0.44 | - | 0.51 | 0.31 | 0.18 | 0.68 | 0.82 | 0.79 |
| 80-89 | 10 | 1 | 0.31 | 0.27 | 0.74 | 0.87 | 0.61 | 0.77 | - | 0.93 | 0.66 | 0.48 | 0.83 | 0.97 | 0.84 |
| 90-99 | 10 | 0.98 | 0.89 | 0.96 | 0.94 | 1 | 0.81 | 0.97 | 0.29 | 1 | 0.93 | 0.81 | 0.94 | 1 | 0.9 |
| 100-109 | 10 | 0.78 | 1 | 1 | 1 | 0.93 | 0.94 | 1 | 0.47 | 0.78 | 1 | 1 | 1 | 0.89 | 0.94 |



TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|--|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psalidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelius</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 110-119 | 10 | - | 0.56 | 0.31 | 0.94 | 0.71 | 1 | 0.9 | 0.65 | 0.49 | 0.9 | 0.99 | 0.99 | 0.69 | 0.97 |
| 120-129 | 10 | - | 0.18 | - | 0.82 | 0.44 | 1 | 0.74 | 0.8 | 0.26 | 0.71 | 0.85 | 0.91 | 0.46 | 0.99 |
| 130-139 | 10 | - | - | - | 0.67 | 0.22 | 0.96 | 0.56 | 0.91 | 0.13 | 0.52 | 0.65 | 0.79 | 0.27 | 1 |
| 140-149 | 10 | 0.56 | - | - | 0.53 | - | 0.89 | 0.41 | 0.98 | 0.59 | 0.35 | 0.46 | 0.63 | 0.13 | 1 |
| 150-159 | 10 | 0.68 | - | - | 0.4 | - | 0.8 | 0.29 | 1 | - | 0.23 | 0.31 | 0.47 | - | 0.98 |
| 160-169 | 10 | - | - | - | 0.3 | - | 0.71 | 0.2 | 0.99 | - | 0.14 | 0.2 | 0.33 | - | 0.96 |
| 170-179 | 10 | - | - | - | 0.22 | - | 0.62 | 0.13 | 0.94 | - | - | 0.12 | 0.22 | - | 0.92 |
| 180-189 | 10 | - | - | - | 0.16 | - | 0.54 | - | 0.88 | - | - | - | 0.13 | - | 0.87 |
| 190-199 | 10 | - | - | - | 0.11 | - | 0.46 | - | 0.81 | - | - | - | - | - | 0.82 |
| 200-209 | 10 | - | - | - | - | - | - | - | 0.73 | - | - | - | - | - | 0.76 |
| 210-219 | 10 | - | - | - | - | - | - | - | 0.65 | - | - | - | - | - | 0.7 |
| 220-229 | 10 | - | - | - | - | - | - | - | 0.57 | - | - | - | - | - | 0.63 |
| 230-239 | 10 | - | - | - | - | - | - | - | 0.49 | - | - | - | - | - | 0.57 |
| 240-249 | 10 | - | - | - | - | - | - | - | 0.43 | - | - | - | - | - | 0.5 |
| 250-259 | 10 | - | - | - | - | - | - | - | 0.37 | - | - | - | - | - | 0.44 |
| 260-269 | 10 | - | - | - | - | - | - | - | 0.31 | - | - | - | - | - | 0.38 |
| 270-279 | 10 | - | - | - | - | - | - | - | 0.27 | - | - | - | - | - | 0.32 |
| 280-289 | 10 | - | - | - | - | - | - | - | 0.23 | - | - | - | - | - | 0.27 |
| 290-299 | 10 | - | - | - | - | - | - | - | 0.19 | - | - | - | - | - | 0.22 |
| 300-309 | 10 | - | - | - | - | - | - | - | 0.16 | - | - | - | - | - | 0.18 |
| 310-319 | 10 | - | - | - | - | - | - | - | 0.14 | - | - | - | - | - | 0.15 |
| 320-329 | 10 | - | - | - | - | - | - | - | 0.11 | - | - | - | - | - | 0.12 |
| 330-339 | 10 | - | - | - | - | - | - | - | 0.1 | - | - | - | - | - | 0.1 |
| 340-349 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350-359 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 360-369 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 370-379 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 380-389 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 390-399 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 400-409 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410-419 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 420-429 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 430-439 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.37 |
| 30-39 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.43 |
| 40-49 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.49 |
| 50-59 | 12.5 | 0.01 | - | - | - | - | 0.12 | - | - | - | - | - | - | 0.15 | 0.56 |
| 60-69 | 12.5 | 0.06 | 0.52 | - | - | 0.1 | 0.63 | - | - | - | - | - | 0.27 | 0.3 | 0.62 |
| 70-79 | 12.5 | - | 0.32 | - | 0.17 | 0.25 | 0.17 | 0.15 | - | 0.11 | - | - | 0.4 | 0.5 | 0.69 |
| 80-89 | 12.5 | 0.52 | 0.31 | - | 0.39 | 0.48 | 0.33 | 0.38 | - | 0.41 | 0.25 | 0.13 | 0.55 | 0.73 | 0.75 |
| 90-99 | 12.5 | 0.82 | 0.89 | - | 0.63 | 0.75 | 0.52 | 0.65 | 0.1 | 0.78 | 0.52 | 0.34 | 0.71 | 0.91 | 0.81 |
| 100-109 | 12.5 | 1 | 1 | 0.11 | 0.84 | 0.96 | 0.69 | 0.87 | 0.2 | 1 | 0.79 | 0.62 | 0.85 | 1 | 0.87 |
| 110-119 | 12.5 | 1 | 0.56 | 0.49 | 0.96 | 1 | 0.84 | 0.99 | 0.33 | 0.97 | 0.96 | 0.86 | 0.95 | 0.95 | 0.91 |
| 120-129 | 12.5 | 0.87 | 0.18 | 1 | 1 | 0.85 | 0.93 | 1 | 0.47 | 0.77 | 1 | 0.99 | 1 | 0.78 | 0.95 |
| 130-139 | 12.5 | 0.67 | - | 0.94 | 0.96 | 0.59 | 0.99 | 0.93 | 0.61 | 0.54 | 0.93 | 1 | 0.98 | 0.55 | 0.98 |
| 140-149 | 12.5 | 0.74 | - | 0.41 | 0.87 | 0.33 | 1 | 0.8 | 0.74 | 0.34 | 0.79 | 0.91 | 0.89 | 0.34 | 1 |
| 150-159 | 12.5 | 0.69 | - | - | 0.76 | 0.15 | 0.98 | 0.67 | 0.85 | 0.2 | 0.63 | 0.76 | 0.76 | 0.18 | 1 |
| 160-169 | 12.5 | - | - | - | 0.64 | - | 0.94 | 0.53 | 0.93 | 0.11 | 0.48 | 0.6 | 0.6 | - | 0.99 |



TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|--|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psatidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelius</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 170-179 | 12.5 | - | - | - | 0.53 | - | 0.88 | 0.41 | 0.98 | 0.41 | 0.35 | 0.45 | 0.45 | - | 0.97 |
| 180-189 | 12.5 | - | - | - | 0.43 | - | 0.81 | 0.31 | 1 | 0.31 | 0.25 | 0.33 | 0.31 | - | 0.94 |
| 190-199 | 12.5 | - | - | - | 0.34 | - | 0.74 | 0.23 | 1 | 0.23 | 0.17 | 0.16 | 0.2 | - | 0.9 |
| 200-209 | 12.5 | - | - | - | 0.27 | - | 0.67 | 0.17 | 0.97 | 0.17 | 0.12 | 0.11 | 0.12 | - | 0.85 |
| 210-219 | 12.5 | 0.68 | - | - | 0.21 | - | 0.6 | 0.9 | 0.93 | 0.9 | - | - | - | - | 0.8 |
| 220-229 | 12.5 | 0.75 | - | - | 0.16 | - | 0.53 | - | 0.88 | - | - | - | - | - | 0.73 |
| 230-239 | 12.5 | 0.82 | - | - | 0.12 | - | 0.47 | - | 0.82 | - | - | - | - | - | 0.67 |
| 240-249 | 12.5 | - | - | - | - | - | 0.41 | - | 0.76 | - | - | - | - | - | 0.6 |
| 250-259 | 12.5 | - | - | - | - | - | 0.36 | - | 0.69 | - | - | - | - | - | 0.54 |
| 260-269 | 12.5 | - | - | - | - | - | 0.31 | - | 0.63 | - | - | - | - | - | 0.47 |
| 270-279 | 12.5 | - | - | - | - | - | - | - | 0.57 | - | - | - | - | - | 0.41 |
| 280-289 | 12.5 | - | - | - | - | - | - | - | 0.51 | - | - | - | - | - | 0.35 |
| 290-299 | 12.5 | - | - | - | - | - | - | - | 0.45 | - | - | - | - | - | 0.3 |
| 300-309 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.25 |
| 310-319 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.21 |
| 320-329 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.17 |
| 330-339 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.14 |
| 340-349 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.11 |
| 350-359 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 360-369 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 370-379 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 380-389 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 390-399 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 400-409 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410-419 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 420-429 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 430-439 | 12.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30-39 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.21 |
| 40-49 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.26 |
| 50-59 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.31 |
| 60-69 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.36 |
| 70-79 | 15.5 | - | - | - | - | - | 0.6 | - | - | 0.12 | - | - | 0.15 | 0.19 | 0.42 |
| 80-89 | 15.5 | - | 0.29 | - | - | 0.12 | 0.15 | 0.12 | - | 0.85 | - | - | 0.25 | 0.35 | 0.48 |
| 90-99 | 15.5 | - | 0.17 | - | 0.15 | 0.28 | 0.28 | 0.29 | - | 0.28 | - | - | 0.37 | 0.56 | 0.55 |
| 100-109 | 15.5 | 0.53 | 0.58 | - | 0.3 | 0.52 | 0.42 | 0.5 | - | 0.58 | 0.36 | 0.21 | 0.52 | 0.79 | 0.62 |
| 110-119 | 15.5 | 0.77 | 1 | - | 0.5 | 0.8 | 0.57 | 0.71 | - | 0.86 | 0.59 | 0.41 | 0.68 | 0.95 | 0.68 |
| 120-129 | 15.5 | 0.94 | 1 | - | 0.69 | 0.99 | 0.71 | 0.88 | - | 1 | 0.8 | 0.63 | 0.83 | 1 | 0.75 |
| 130-139 | 15.5 | 1 | 0.63 | 0.17 | 0.85 | 1 | 0.82 | 0.97 | - | 0.98 | 0.94 | 0.83 | 0.94 | 0.91 | 0.81 |
| 140-149 | 15.5 | 0.95 | 0.28 | 0.51 | 0.96 | 0.82 | 0.91 | 1 | 0.42 | 0.84 | 1 | 0.95 | 1 | 0.71 | 0.86 |
| 150-159 | 15.5 | 0.85 | 0.1 | 0.92 | 1 | 0.55 | 0.96 | 0.97 | 0.54 | 0.66 | 0.98 | 1 | 0.99 | 0.49 | 0.91 |
| 160-169 | 15.5 | 0.76 | - | 1 | 0.99 | 0.3 | 0.99 | 0.89 | 0.65 | 0.47 | 0.89 | 0.97 | 0.92 | 0.29 | 0.95 |
| 170-179 | 15.5 | 0.91 | - | 0.66 | 0.94 | 0.13 | 1 | 0.79 | 0.75 | 0.32 | 0.78 | 0.89 | 0.79 | 0.15 | 0.98 |
| 180-189 | 15.5 | 0.23 | - | 0.26 | 0.87 | - | 0.99 | 0.67 | 0.84 | 0.21 | 0.65 | 0.77 | 0.64 | - | 0.99 |
| 190-199 | 15.5 | 0.19 | - | - | 0.78 | - | 0.95 | 0.56 | 0.91 | 0.13 | 0.52 | 0.64 | 0.48 | - | 1 |
| 200-209 | 15.5 | 0.13 | - | - | 0.68 | - | 0.91 | 0.46 | 0.96 | - | 0.41 | 0.52 | 0.34 | - | 0.99 |
| 210-219 | 15.5 | 0.08 | - | - | 0.58 | - | 0.86 | 0.37 | 0.99 | - | 0.32 | 0.41 | 0.22 | - | 0.97 |
| 220-229 | 15.5 | - | - | - | 0.5 | - | 0.81 | 0.3 | 1 | - | 0.24 | 0.31 | 0.13 | - | 0.95 |
| 230-239 | 15.5 | - | - | - | 0.42 | - | 0.75 | 0.23 | 1 | - | 0.18 | 0.24 | - | - | 0.91 |



TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|---|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psatidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelilus</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 240-249 | 15.5 | - | - | - | 0.35 | - | 0.69 | 0.18 | 0.98 | - | 0.13 | 0.18 | - | - | 0.86 |
| 250-259 | 15.5 | - | - | - | 0.28 | - | 0.63 | 0.14 | 0.95 | - | 0.1 | 0.13 | - | - | 0.8 |
| 260-269 | 15.5 | - | - | - | 0.23 | - | 0.58 | 0.11 | 0.92 | - | - | - | - | - | 0.74 |
| 270-279 | 15.5 | - | - | - | 0.19 | - | 0.52 | - | 0.87 | - | - | - | - | - | - |
| 280-289 | 15.5 | - | - | - | 0.15 | - | 0.47 | - | 0.82 | - | - | - | - | - | - |
| 290-299 | 15.5 | - | - | - | 0.12 | - | 0.43 | - | 0.77 | - | - | - | - | - | - |
| 300-309 | 15.5 | - | - | - | 0.1 | - | 0.38 | - | 0.72 | - | - | - | - | - | - |
| 310-319 | 15.5 | - | - | - | - | - | 0.34 | - | 0.67 | - | - | - | - | - | - |
| 320-329 | 15.5 | - | - | - | - | - | 0.31 | - | - | - | - | - | - | - | - |
| 330-339 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340-349 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350-359 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 360-369 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 370-379 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 380-389 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 390-399 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 400-409 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410-419 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 420-429 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 430-439 | 15.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30-39 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40-49 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50-59 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60-69 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70-79 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80-89 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90-99 | 19.5 | - | - | - | - | - | 0.11 | - | - | - | - | - | - | 0.15 | - |
| 100-109 | 19.5 | 0.11 | - | - | 0.2 | 0.75 | 0.19 | 0.17 | - | - | - | - | 0.16 | 0.3 | - |
| 110-119 | 19.5 | 0.24 | 0.2 | - | 0.33 | 0.19 | 0.3 | 0.32 | - | 0.32 | 0.2 | - | 0.25 | 0.5 | - |
| 120-129 | 19.5 | 0.42 | 0.52 | - | 0.49 | 0.39 | 0.41 | 0.48 | - | 0.56 | 0.35 | - | 0.38 | 0.73 | - |
| 130-139 | 19.5 | 0.62 | 0.87 | - | 0.65 | 0.66 | 0.53 | 0.66 | 0.11 | 0.79 | 0.54 | 0.35 | 0.53 | 0.92 | - |
| 140-149 | 19.5 | 0.81 | 1 | 0.12 | 0.79 | 0.9 | 0.63 | 0.81 | 0.17 | 0.95 | 0.71 | 0.53 | 0.69 | 1 | - |
| 150-159 | 19.5 | 0.94 | 0.84 | 0.32 | 0.89 | 1 | 0.75 | 0.92 | 0.24 | 1 | 0.86 | 0.7 | 0.83 | 0.95 | - |
| 160-169 | 19.5 | 1 | 0.55 | 0.65 | 0.97 | 0.91 | 0.83 | 0.98 | 0.32 | 0.96 | 0.96 | 0.85 | 0.95 | 0.77 | - |
| 170-179 | 19.5 | 0.93 | - | 0.95 | 1 | 0.67 | 0.9 | 1 | 0.41 | 0.85 | 1 | 0.95 | 1 | 0.55 | - |
| 180-189 | 19.5 | - | - | 1 | 1 | 0.4 | 0.95 | 0.98 | 0.5 | 0.7 | 0.99 | 1 | 0.99 | 0.34 | 0.86 |
| 190-199 | 19.5 | - | - | 0.78 | 0.97 | 0.2 | 0.98 | 0.93 | 0.6 | 0.55 | 0.94 | 1 | 0.91 | 0.18 | 0.9 |
| 200-209 | 19.5 | - | - | 0.44 | 0.92 | - | 1 | 0.86 | 0.68 | 0.42 | 0.86 | 0.95 | 0.78 | - | 0.94 |
| 210-219 | 19.5 | - | - | 0.18 | 0.86 | - | 1 | 0.77 | 0.76 | 0.31 | 0.76 | 0.88 | 0.63 | - | 0.97 |
| 220-229 | 19.5 | - | - | - | 0.79 | - | 0.99 | 0.68 | 0.83 | 0.22 | 0.66 | 0.79 | 0.47 | - | 0.99 |
| 230-239 | 19.5 | - | - | - | 0.71 | - | 0.97 | 0.6 | 0.89 | 0.15 | 0.56 | 0.68 | 0.33 | - | 1 |
| 240-249 | 19.5 | - | - | - | 0.63 | - | 0.94 | 0.51 | 0.93 | 0.1 | 0.47 | 0.58 | 0.21 | - | 0.99 |
| 250-259 | 19.5 | - | - | - | 0.56 | - | 0.9 | 0.44 | 0.97 | - | 0.38 | 0.49 | 0.13 | - | 0.98 |
| 260-269 | 19.5 | - | - | - | 0.49 | - | 0.86 | 0.37 | 0.99 | - | 0.31 | 0.4 | - | - | 0.95 |
| 270-279 | 19.5 | - | - | - | 0.43 | - | 0.81 | 0.31 | 1 | - | 0.25 | 0.33 | - | - | 0.91 |
| 280-289 | 19.5 | - | - | - | 0.37 | - | 0.77 | 0.25 | 0.99 | - | 0.2 | 0.26 | - | - | 0.86 |
| 290-299 | 19.5 | - | - | - | 0.32 | - | 0.72 | 0.21 | 0.97 | - | 0.16 | 0.21 | - | - | 0.81 |
| 300-309 | 19.5 | - | - | - | 0.27 | - | 0.67 | 0.17 | 0.95 | - | 0.12 | 0.16 | - | - | 0.75 |

TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|---|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psatidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelilus</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 310-319 | 19.5 | - | - | - | 0.23 | - | 0.63 | 0.14 | 0.92 | - | - | 0.13 | - | - | 0.68 |
| 320-329 | 19.5 | - | - | - | 0.2 | - | 0.58 | 0.11 | 0.89 | - | - | 0.1 | - | - | 0.62 |
| 330-339 | 19.5 | - | - | - | 0.17 | - | 0.54 | - | 0.85 | - | - | - | - | - | 0.55 |
| 340-349 | 19.5 | - | - | - | 0.14 | - | 0.5 | - | - | - | - | - | - | - | 0.49 |
| 350-359 | 19.5 | - | - | - | 0.12 | - | 0.46 | - | - | - | - | - | - | - | 0.42 |
| 360-369 | 19.5 | - | - | - | 0.1 | - | 0.43 | - | - | - | - | - | - | - | 0.36 |
| 370-379 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.31 |
| 380-389 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.26 |
| 390-399 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.22 |
| 400-409 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410-419 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 420-429 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 430-439 | 19.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30-39 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40-49 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50-59 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60-69 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70-79 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80-89 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90-99 | 24 | - | - | - | - | - | 0.39 | - | - | - | - | - | - | - | - |
| 100-109 | 24 | - | - | - | - | - | 0.77 | - | - | - | - | - | - | - | - |
| 110-119 | 24 | - | - | - | 0.12 | - | 0.13 | 0.1 | - | - | - | - | - | - | - |
| 120-129 | 24 | - | - | - | 0.21 | 0.32 | 0.2 | 0.19 | - | 0.16 | 0.1 | - | - | 0.21 | - |
| 130-139 | 24 | - | - | - | 0.32 | 0.94 | 0.29 | 0.31 | - | 0.31 | 0.19 | - | 0.14 | 0.38 | - |
| 140-149 | 24 | - | 0.19 | - | 0.45 | 0.23 | 0.38 | 0.44 | - | 0.5 | 0.31 | 0.17 | 0.22 | 0.6 | - |
| 150-159 | 24 | - | 0.43 | - | 0.58 | 0.45 | 0.48 | 0.58 | - | 0.69 | 0.45 | 0.28 | 0.34 | 0.82 | - |
| 160-169 | 24 | - | 0.73 | - | 0.7 | 0.72 | 0.57 | 0.72 | - | 0.86 | 0.6 | 0.42 | 0.48 | 0.98 | - |
| 170-179 | 24 | - | 0.96 | 0.17 | 0.81 | 0.94 | 0.66 | 0.83 | - | 0.96 | 0.74 | 0.56 | 0.64 | 1 | 0.5 |
| 180-189 | 24 | 0.77 | 1 | 0.37 | 0.89 | 1 | 0.75 | 0.92 | 0.24 | 1 | 0.86 | 0.7 | 0.79 | 0.89 | 0.57 |
| 190-199 | 24 | 0.89 | 0.85 | 0.63 | 0.95 | 0.86 | 0.82 | 0.97 | 0.31 | 0.97 | 0.94 | 0.82 | 0.92 | 0.68 | 0.63 |
| 200-209 | 24 | 0.97 | 0.61 | 0.88 | 0.99 | 0.61 | 0.88 | 1 | 0.38 | 0.89 | 0.99 | 0.92 | 0.99 | 0.46 | 0.7 |
| 210-219 | 24 | 1 | 0.37 | 1 | 1 | 0.35 | 0.92 | 1 | 0.45 | 0.79 | 1 | 0.98 | 1 | 0.26 | 0.76 |
| 220-229 | 24 | 0.99 | 0.2 | 0.92 | 0.99 | 0.16 | 0.96 | 0.97 | 0.53 | 0.67 | 0.98 | 1 | 0.94 | 0.13 | 0.82 |
| 230-239 | 24 | 0.86 | - | 0.68 | 0.97 | - | 0.98 | 0.93 | 0.6 | 0.55 | 0.93 | 0.99 | 0.83 | - | 0.88 |
| 240-249 | 24 | - | - | 0.41 | 0.93 | - | 1 | 0.87 | 0.67 | 0.43 | 0.87 | 0.96 | 0.68 | - | 0.92 |
| 250-259 | 24 | - | - | 0.2 | 0.88 | - | 1 | 0.8 | 0.74 | 0.34 | 0.79 | 0.9 | 0.52 | - | 0.96 |
| 260-269 | 24 | - | - | - | 0.82 | - | 0.99 | 0.73 | 0.8 | 0.26 | 0.71 | 0.83 | 0.37 | - | 0.98 |
| 270-279 | 24 | - | - | - | 0.76 | - | 0.98 | 0.66 | 0.85 | 0.19 | 0.63 | 0.75 | 0.25 | - | 1 |
| 280-289 | 24 | - | - | - | 0.7 | - | 0.96 | 0.59 | 0.89 | 0.14 | 0.55 | 0.67 | 0.15 | - | 1 |
| 290-299 | 24 | - | - | - | 0.64 | - | 0.94 | 0.52 | 0.93 | 0.1 | 0.47 | 0.59 | - | - | 0.99 |
| 300-309 | 24 | - | - | - | 0.58 | - | 0.91 | 0.46 | 0.96 | - | 0.4 | 0.51 | - | - | 0.97 |
| 310-319 | 24 | - | - | - | 0.52 | - | 0.87 | 0.4 | 0.98 | - | 0.34 | 0.44 | - | - | 0.94 |
| 320-329 | 24 | - | - | - | 0.46 | - | 0.84 | 0.34 | 0.99 | - | 0.29 | 0.37 | - | - | 0.89 |
| 330-339 | 24 | - | - | - | 0.41 | - | 0.8 | 0.3 | 1 | - | 0.24 | 0.31 | - | - | 0.84 |
| 340-349 | 24 | - | - | - | 0.37 | - | 0.77 | 0.25 | 1 | - | 0.2 | 0.26 | - | - | 0.79 |
| 350-359 | 24 | - | - | - | 0.32 | - | 0.73 | 0.22 | 0.99 | - | 0.16 | 0.22 | - | - | 0.72 |
| 360-369 | 24 | - | - | - | 0.29 | - | 0.69 | 0.19 | 0.98 | - | 0.13 | 0.18 | - | - | 0.66 |
| 370-379 | 24 | - | - | - | 0.25 | - | 0.65 | 0.16 | 0.96 | - | 0.11 | 0.15 | - | - | 0.59 |



TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|---|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psatidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelilus</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 380-389 | 24 | - | - | - | 0.22 | - | 0.62 | 0.13 | 0.94 | - | - | 0.12 | - | - | 0.53 |
| 390-399 | 24 | - | - | - | 0.19 | - | - | 0.11 | 0.92 | - | - | 0.1 | - | - | 0.46 |
| 400-409 | 24 | - | - | - | 0.17 | - | - | 0.1 | 0.89 | - | - | - | - | - | 0.4 |
| 410-419 | 24 | - | - | - | 0.15 | - | - | - | - | - | - | - | - | - | 0.34 |
| 420-429 | 24 | - | - | - | 0.13 | - | - | - | - | - | - | - | - | - | 0.29 |
| 430-439 | 24 | - | - | - | 0.11 | - | - | - | - | - | - | - | - | - | 0.24 |
| 30-39 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40-49 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50-59 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60-69 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70-79 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80-89 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90-99 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-109 | 29 | - | - | - | - | - | 0.28 | - | - | - | - | - | - | - | - |
| 110-119 | 29 | - | - | - | - | - | 0.54 | - | - | - | - | - | - | - | - |
| 120-129 | 29 | - | - | - | - | - | 0.1 | - | - | - | - | - | - | - | - |
| 130-139 | 29 | - | - | - | 0.13 | - | 0.14 | 0.11 | - | - | - | - | - | - | - |
| 140-149 | 29 | - | - | - | 0.2 | - | 0.2 | 0.18 | - | 0.15 | - | - | - | 0.11 | - |
| 150-159 | 29 | - | 0.14 | - | 0.29 | 0.29 | 0.27 | 0.28 | - | 0.27 | - | - | - | 0.23 | - |
| 160-169 | 29 | - | 0.32 | - | 0.4 | 0.87 | 0.34 | 0.38 | - | 0.42 | 0.26 | - | - | 0.42 | - |
| 170-179 | 29 | - | 0.55 | - | 0.5 | 0.21 | 0.42 | 0.5 | 0.67 | 0.58 | 0.37 | 0.22 | - | 0.64 | 0.22 |
| 180-189 | 29 | - | 0.8 | - | 0.61 | 0.43 | 0.5 | 0.62 | 0.1 | 0.74 | 0.49 | 0.31 | 0.26 | 0.86 | 0.26 |
| 190-199 | 29 | 0.57 | 0.96 | - | 0.71 | 0.7 | 0.58 | 0.72 | 0.13 | 0.87 | 0.61 | 0.43 | 0.38 | 1 | 0.31 |
| 200-209 | 29 | 0.7 | 1 | 0.18 | 0.8 | 0.93 | 0.66 | 0.82 | 0.17 | 0.96 | 0.73 | 0.55 | 0.53 | 1 | 0.37 |
| 210-219 | 29 | 0.82 | 0.9 | 0.34 | 0.87 | 1 | 0.72 | 0.9 | 0.22 | 1 | 0.83 | 0.66 | 0.69 | 0.87 | 0.43 |
| 220-229 | 29 | 0.91 | 0.71 | 0.56 | 0.93 | 0.88 | 0.79 | 0.95 | 0.28 | 0.99 | 0.91 | 0.77 | 0.84 | 0.65 | 0.49 |
| 230-239 | 29 | 0.97 | 0.51 | 0.78 | 0.97 | 0.63 | 0.84 | 0.99 | 0.33 | 0.95 | 0.96 | 0.86 | 0.95 | 0.43 | 0.56 |
| 240-249 | 29 | 1 | 0.33 | 0.95 | 0.99 | 0.37 | 0.89 | 1 | 0.39 | 0.88 | 0.99 | 0.93 | 1 | 0.24 | 0.62 |
| 250-259 | 29 | 0.99 | 0.19 | 1 | 1 | 0.17 | 0.93 | 1 | 0.45 | 0.78 | 1 | 0.98 | 0.99 | 0.12 | 0.69 |
| 260-269 | 29 | 0.96 | 0.1 | 0.91 | 0.99 | - | 0.96 | 0.97 | 0.52 | 0.68 | 0.98 | 1 | 0.91 | - | 0.75 |
| 270-279 | 29 | 0.91 | - | 0.72 | 0.98 | - | 0.98 | 0.94 | 0.58 | 0.58 | 0.95 | 1 | 0.78 | - | 0.81 |
| 280-289 | 29 | - | - | 0.49 | 0.95 | - | 0.99 | 0.9 | 0.64 | 0.49 | 0.9 | 0.98 | 0.62 | - | 0.87 |
| 290-299 | 29 | - | - | 0.29 | 0.91 | - | 1 | 0.85 | 0.69 | 0.4 | 0.84 | 0.94 | 0.46 | - | 0.91 |
| 300-309 | 29 | - | - | 0.15 | 0.87 | - | 1 | 0.79 | 0.75 | 0.32 | 0.78 | 0.89 | 0.32 | - | 0.95 |
| 310-319 | 29 | - | - | - | 0.82 | - | 0.99 | 0.73 | 0.8 | 0.26 | 0.71 | 0.83 | 0.21 | - | 0.98 |
| 320-329 | 29 | - | - | - | 0.77 | - | 0.98 | 0.67 | 0.84 | 0.2 | 0.64 | 0.77 | 0.13 | - | 1 |
| 330-339 | 29 | - | - | - | 0.72 | - | 0.97 | 0.61 | 0.88 | 0.16 | 0.58 | 0.7 | - | - | 1 |
| 340-349 | 29 | - | - | - | 0.67 | - | 0.95 | 0.55 | 0.91 | 0.12 | 0.51 | 0.63 | - | - | 0.99 |
| 350-359 | 29 | - | - | - | 0.62 | - | 0.93 | 0.5 | 0.94 | - | 0.45 | 0.56 | - | - | 0.97 |
| 360-369 | 29 | - | - | - | 0.57 | - | 0.9 | 0.45 | 0.96 | - | 0.39 | 0.5 | - | - | 0.94 |
| 370-379 | 29 | - | - | - | 0.52 | - | - | 0.4 | 0.98 | - | 0.34 | 0.44 | - | - | 0.9 |
| 380-389 | 29 | - | - | - | 0.47 | - | - | 0.35 | 0.99 | - | 0.3 | 0.38 | - | - | 0.85 |
| 390-399 | 29 | - | - | - | 0.43 | - | - | 0.31 | 1 | - | 0.26 | 0.33 | - | - | 0.8 |
| 400-409 | 29 | - | - | - | 0.39 | - | - | 0.28 | 1 | - | 0.22 | 0.29 | - | - | 0.73 |
| 410-419 | 29 | - | - | - | 0.35 | - | - | 0.24 | 1 | - | 0.19 | 0.25 | - | - | 0.67 |
| 420-429 | 29 | - | - | - | 0.32 | - | - | 0.21 | - | - | 0.16 | 0.21 | - | - | 0.6 |
| 430-439 | 29 | - | - | - | 0.29 | - | - | 0.19 | - | - | - | 0.18 | - | - | 0.54 |
| 30-39 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE S4 | (Continued)

| Relative probability of retention (Rel S _i value) to each mesh size | | | | | | | | | | | | | | | |
|--|----------------|--|---|---|--|---|---|---|--|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S _i) | <i>Psalidodon</i> spp. Relative Retention (S _i) | <i>P. stramineus</i> Relative Retention (S _i) | <i>C. argenteus</i> Relative Retention (S _i) | <i>C. platanus</i> Relative Retention (S _i) | <i>I. labrosus</i> Relative Retention (S _i) | <i>M. obtusidens</i> Relative Retention (S _i) | <i>L. melanocheilus</i> Relative Retention (S _i) | <i>P. bonariensis</i> Relative Retention (S _i) | <i>P. valenciennes</i> Relative Retention (S _i) | <i>P. gracilis</i> Relative Retention (S _i) | <i>Pimelodus</i> sp. Relative Retention (S _i) | <i>P. lineatus</i> Relative Retention (S _i) | <i>R. macrops</i> Relative Retention (S _i) |
| 40-49 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50-59 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60-69 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70-79 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80-89 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90-99 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-109 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110-119 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120-129 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130-139 | 35 | - | - | - | - | - | 0.58 | - | - | - | - | - | - | - | - |
| 140-149 | 35 | - | - | - | - | - | 0.09 | - | - | - | - | - | - | - | - |
| 150-159 | 35 | - | - | - | 0.12 | - | 0.13 | - | - | - | - | - | - | - | - |
| 160-169 | 35 | - | - | - | 0.17 | - | 0.17 | - | - | 0.11 | - | - | - | 0.32 | - |
| 170-179 | 35 | - | - | - | 0.24 | - | 0.23 | 0.22 | - | 0.19 | - | - | - | 0.08 | - |
| 180-189 | 35 | - | 0.18 | - | 0.32 | - | 0.29 | 0.3 | - | 0.3 | - | - | - | 0.17 | - |
| 190-199 | 35 | - | 0.34 | - | 0.4 | - | 0.35 | 0.39 | - | 0.43 | - | - | - | 0.33 | - |
| 200-209 | 35 | - | 0.54 | - | 0.49 | 0.12 | 0.42 | 0.49 | - | 0.57 | 0.36 | 0.21 | 0.74 | 0.54 | - |
| 210-219 | 35 | - | 0.75 | - | 0.58 | 0.27 | 0.48 | 0.59 | - | 0.7 | 0.46 | 0.29 | 0.13 | 0.76 | - |
| 220-229 | 35 | - | 0.91 | - | 0.67 | 0.52 | 0.55 | 0.68 | - | 0.82 | 0.56 | 0.38 | 0.21 | 0.94 | 0.17 |
| 230-239 | 35 | - | 1 | 0.14 | 0.74 | 0.79 | 0.61 | 0.76 | - | 0.91 | 0.66 | 0.47 | 0.33 | 1 | 0.21 |
| 240-249 | 35 | - | 0.99 | 0.24 | 0.81 | 0.99 | 0.67 | 0.84 | 0.19 | 0.97 | 0.75 | 0.57 | 0.47 | 0.92 | 0.26 |
| 250-259 | 35 | - | 0.9 | 0.39 | 0.87 | 1 | 0.73 | 0.9 | 0.23 | 1 | 0.84 | 0.67 | 0.63 | 0.74 | 0.3 |
| 260-269 | 35 | - | 0.75 | 0.58 | 0.92 | 0.83 | 0.78 | 0.95 | 0.28 | 1 | 0.9 | 0.76 | 0.78 | 0.51 | 0.36 |
| 270-279 | 35 | - | 0.57 | 0.76 | 0.96 | 0.56 | 0.83 | 0.98 | 0.33 | 0.97 | 0.95 | 0.84 | 0.91 | 0.31 | 0.42 |
| 280-289 | 35 | - | 0.41 | 0.92 | 0.98 | 0.3 | 0.87 | 1 | 0.38 | 0.91 | 0.98 | 0.9 | 0.99 | 0.16 | 0.48 |
| 290-299 | 35 | - | 0.27 | 1 | 1 | 0.14 | 0.9 | 1 | 0.43 | 0.84 | 1 | 0.95 | 1 | - | 0.55 |
| 300-309 | 35 | - | 0.17 | 0.99 | 1 | - | 0.93 | 0.99 | 0.49 | 0.76 | 1 | 0.98 | 0.95 | - | 0.61 |
| 310-319 | 35 | - | - | 0.89 | 0.99 | - | 0.96 | 0.97 | 0.54 | 0.68 | 0.98 | 1 | 0.83 | - | 0.68 |
| 320-329 | 35 | - | - | 0.72 | 0.98 | - | 0.98 | 0.95 | 0.59 | 0.6 | 0.96 | 1 | 0.69 | - | 0.74 |
| 330-339 | 35 | - | - | 0.53 | 0.96 | - | 0.99 | 0.91 | 0.64 | 0.52 | 0.92 | 0.99 | 0.53 | - | 0.8 |
| 340-349 | 35 | - | - | 0.35 | 0.93 | - | 1 | 0.87 | 0.69 | 0.44 | 0.87 | 0.96 | 0.38 | - | 0.86 |
| 350-359 | 35 | - | - | 0.21 | 0.9 | - | 0.9 | 0.83 | 0.74 | 0.37 | 0.82 | 0.92 | 0.25 | - | 0.91 |
| 360-369 | 35 | - | - | 0.11 | 0.86 | - | 0.99 | 0.78 | 0.79 | 0.31 | 0.77 | 0.88 | 0.16 | - | 0.95 |
| 370-379 | 35 | - | - | - | 0.82 | - | 0.89 | 0.73 | 0.83 | 0.26 | 0.71 | 0.83 | - | - | 0.98 |
| 380-389 | 35 | - | - | - | 0.78 | - | 0.97 | 0.68 | 0.87 | 0.21 | 0.66 | 0.78 | - | - | 0.99 |
| 390-399 | 35 | - | - | - | 0.74 | - | 0.96 | 0.63 | 0.9 | 0.17 | 0.6 | 0.72 | - | - | 1 |
| 400-409 | 35 | - | - | - | 0.69 | - | 0.94 | 0.58 | 0.93 | 0.14 | 0.54 | 0.66 | - | - | 0.99 |
| 410-419 | 35 | - | - | - | 0.65 | - | 0.92 | 0.54 | 0.96 | 0.11 | 0.49 | 0.61 | - | - | 0.98 |
| 420-429 | 35 | - | - | - | 0.61 | - | 0.9 | 0.49 | 0.98 | - | 0.44 | 0.55 | - | - | 0.95 |
| 430-439 | 35 | - | - | - | 0.57 | - | - | 0.45 | 1 | - | 0.4 | 0.5 | - | - | 0.91 |
| 30-39 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40-49 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50-59 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60-69 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70-79 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80-89 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90-99 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-109 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|---|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psatidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelilus</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 110-119 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120-129 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130-139 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140-149 | 43 | - | - | - | - | - | 0.3 | - | - | - | - | - | - | - | - |
| 150-159 | 43 | - | - | - | - | - | 0.47 | - | - | - | - | - | - | - | - |
| 160-169 | 43 | - | - | - | - | - | 0.07 | - | - | - | - | - | - | - | - |
| 170-179 | 43 | - | - | - | - | - | 0.1 | - | - | - | - | - | - | - | - |
| 180-189 | 43 | - | - | - | 0.12 | - | 0.13 | - | - | - | - | - | - | - | - |
| 190-199 | 43 | - | - | - | 0.16 | - | 0.17 | - | - | 0.1 | - | - | - | - | - |
| 200-209 | 43 | - | - | - | 0.22 | - | 0.21 | - | - | 0.16 | - | - | - | - | - |
| 210-219 | 43 | - | 0.12 | - | 0.28 | - | 0.25 | - | - | 0.24 | - | - | - | 0.49 | - |
| 220-229 | 43 | - | 0.22 | - | 0.34 | - | 0.3 | - | - | 0.34 | - | - | - | 0.12 | - |
| 230-239 | 43 | - | 0.35 | - | 0.41 | - | 0.36 | - | - | 0.44 | - | - | - | 0.24 | - |
| 240-249 | 43 | - | 0.51 | - | 0.48 | - | 0.41 | 0.48 | - | 0.55 | - | 0.2 | - | 0.42 | - |
| 250-259 | 43 | - | 0.68 | - | 0.56 | 0.13 | 0.46 | 0.56 | - | 0.66 | 0.43 | 0.26 | 0.43 | 0.65 | - |
| 260-269 | 43 | - | 0.84 | - | 0.63 | 0.29 | 0.52 | 0.64 | - | 0.77 | 0.51 | 0.33 | 0.08 | 0.87 | - |
| 270-279 | 43 | - | 0.95 | 0.1 | 0.69 | 0.54 | 0.57 | 0.71 | - | 0.85 | 0.6 | 0.41 | 0.14 | 1 | - |
| 280-289 | 43 | - | 1 | 0.17 | 0.76 | 0.81 | 0.62 | 0.78 | 0.21 | 0.92 | 0.68 | 0.49 | 0.23 | 1 | - |
| 290-299 | 43 | - | 0.98 | 0.26 | 0.81 | 1 | 0.67 | 0.84 | 0.25 | 0.97 | 0.75 | 0.57 | 0.35 | 0.86 | - |
| 300-309 | 43 | - | 0.91 | 0.39 | 0.86 | 1 | 0.72 | 0.89 | 0.3 | 1 | 0.82 | 0.65 | 0.49 | 0.65 | - |
| 310-319 | 43 | - | 0.8 | 0.54 | 0.9 | 0.81 | 0.76 | 0.93 | 0.34 | 1 | 0.88 | 0.72 | 0.65 | 0.42 | 0.23 |
| 320-329 | 43 | - | 0.67 | 0.69 | 0.94 | 0.54 | 0.8 | 0.96 | 0.4 | 0.99 | 0.92 | 0.79 | 0.8 | 0.24 | 0.27 |
| 330-339 | 43 | - | 0.53 | 0.84 | 0.97 | 0.29 | 0.84 | 0.98 | 0.45 | 0.95 | 0.96 | 0.85 | 0.93 | 0.12 | 0.33 |
| 340-349 | 43 | - | 0.4 | 0.95 | 0.98 | 0.13 | 0.87 | 1 | 0.5 | 0.91 | 0.98 | 0.9 | 1 | - | 0.39 |
| 350-359 | 43 | - | 0.29 | 1 | 1 | - | 0.9 | 1 | 0.56 | 0.85 | 1 | 0.94 | 1 | - | 0.45 |
| 360-369 | 43 | - | 0.2 | 1 | 1 | - | 0.92 | 1 | 0.62 | 0.79 | 1 | 0.97 | 0.94 | - | 0.52 |
| 370-379 | 43 | - | 0.13 | 0.93 | 0.99 | - | 0.95 | 0.98 | 0.67 | 0.72 | 0.99 | 0.99 | 0.82 | - | 0.59 |
| 380-389 | 43 | - | - | 0.81 | 0.98 | - | 0.96 | 0.97 | 0.73 | 0.65 | 0.98 | 1 | 0.67 | - | 0.66 |
| 390-399 | 43 | - | - | 0.66 | 0.96 | - | 0.98 | 0.94 | 0.79 | 0.59 | 0.95 | 1 | 0.51 | - | 0.74 |
| 400-409 | 43 | - | - | 0.5 | 0.94 | - | 0.99 | 0.91 | 0.84 | 0.52 | 0.92 | 0.99 | 0.36 | - | 0.81 |
| 410-419 | 43 | - | - | 0.36 | 0.91 | - | 1 | 0.88 | 0.9 | 0.46 | 0.89 | 0.97 | 0.24 | - | 0.88 |
| 420-429 | 43 | - | - | 0.24 | 0.88 | - | 0.88 | 0.85 | 0.95 | 0.4 | 0.85 | 0.94 | 0.15 | - | 0.94 |
| 430-439 | 43 | - | - | 0.15 | - | - | 1 | 0.81 | 1 | 0.35 | 0.8 | 0.91 | - | - | 1 |
| 30-39 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40-49 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50-59 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60-69 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 70-79 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80-89 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90-99 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-109 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 110-119 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120-129 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130-139 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 140-149 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 150-159 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 160-169 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170-179 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



TABLE S4 | (Continued)

| Relative probability of retention (Rel S_i value) to each mesh size | | | | | | | | | | | | | | | |
|---|----------------|--|---|---|--|---|---|---|--|--|---|---|---|---|--|
| Length class (mm) | Mesh-size (mm) | <i>A. affinis</i> Relative Retention (S_i) | <i>Psalidodon</i> spp. Relative Retention (S_i) | <i>P. stramineus</i> Relative Retention (S_i) | <i>C. argenteus</i> Relative Retention (S_i) | <i>C. platanus</i> Relative Retention (S_i) | <i>I. labrosus</i> Relative Retention (S_i) | <i>M. obtusidens</i> Relative Retention (S_i) | <i>L. melanochelius</i> Relative Retention (S_i) | <i>P. bonariensis</i> Relative Retention (S_i) | <i>P. valenciennes</i> Relative Retention (S_i) | <i>P. gracilis</i> Relative Retention (S_i) | <i>Pimelodus</i> sp. Relative Retention (S_i) | <i>P. lineatus</i> Relative Retention (S_i) | <i>R. macrops</i> Relative Retention (S_i) |
| 180-189 | 55 | - | - | - | - | - | 0.44 | 0.15 | - | - | - | - | - | - | - |
| 190-199 | 55 | - | - | - | - | - | 0.06 | 0.02 | - | - | - | - | - | - | - |
| 200-209 | 55 | - | - | - | - | - | 0.08 | 0.3 | - | - | - | - | - | - | - |
| 210-219 | 55 | - | - | - | - | - | 11 | - | - | - | - | - | - | - | - |
| 220-229 | 55 | - | - | - | 0.1 | - | 0.13 | - | - | - | - | - | - | - | - |
| 230-239 | 55 | - | - | - | 0.14 | - | 0.17 | - | - | - | - | - | - | - | - |
| 240-249 | 55 | - | - | - | 0.17 | - | 0.2 | - | - | 0.11 | - | - | - | - | - |
| 250-259 | 55 | - | - | - | 0.22 | - | 0.24 | 0.19 | - | 0.16 | - | - | - | - | - |
| 260-269 | 55 | - | 0.1 | - | 0.27 | - | 0.28 | 0.24 | - | 0.22 | - | - | - | - | - |
| 270-279 | 55 | - | 0.17 | - | 0.32 | - | 0.32 | 0.3 | - | 0.29 | - | - | - | - | - |
| 280-289 | 55 | - | 0.26 | - | 0.37 | - | 0.37 | 0.35 | - | 0.37 | 0.23 | - | - | - | - |
| 290-299 | 55 | - | 0.37 | - | 0.43 | - | 0.41 | 0.41 | - | 0.45 | 0.29 | - | - | 0.13 | - |
| 300-309 | 55 | - | 0.49 | - | 0.48 | - | 0.46 | 0.47 | - | 0.54 | 0.35 | 0.21 | - | 0.26 | - |
| 310-319 | 55 | - | 0.63 | - | 0.54 | - | 0.51 | 0.54 | - | 0.63 | 0.41 | 0.27 | - | 0.45 | - |
| 320-329 | 55 | - | 0.76 | - | 0.6 | - | 0.56 | 0.6 | 0.25 | 0.71 | 0.47 | 0.32 | - | 0.68 | - |
| 330-339 | 55 | - | 0.87 | - | 0.65 | 0.21 | 0.61 | 0.66 | 0.3 | 0.79 | 0.54 | 0.39 | - | 0.89 | - |
| 340-349 | 55 | - | 0.95 | 0.12 | 0.71 | 0.42 | 0.65 | 0.71 | 0.35 | 0.85 | 0.61 | 0.45 | - | 1 | 0.1 |
| 350-359 | 55 | - | 0.99 | 0.17 | 0.76 | 0.69 | 0.7 | 0.77 | 0.41 | 0.91 | 0.67 | 0.52 | - | 0.98 | 0.14 |
| 360-369 | 55 | - | 1 | 0.25 | 0.8 | 0.92 | 0.75 | 0.82 | 0.47 | 0.95 | 0.73 | 0.59 | 0.15 | 0.82 | 0.18 |
| 370-379 | 55 | - | 0.96 | 0.34 | 0.84 | 1 | 0.79 | 0.86 | 0.54 | 0.98 | 0.79 | 0.66 | 0.25 | 0.6 | 0.24 |
| 380-389 | 55 | - | 0.9 | 0.45 | 0.88 | 0.88 | 0.83 | 0.9 | 0.61 | 1 | 0.84 | 0.73 | 0.37 | 0.38 | 0.31 |
| 390-399 | 55 | - | 0.81 | 0.58 | 0.92 | 0.64 | 0.87 | 0.93 | 0.69 | 1 | 0.89 | 0.79 | 0.52 | 0.21 | 0.41 |
| 400-409 | 55 | - | 0.71 | 0.7 | 0.94 | 0.37 | 0.91 | 0.96 | 0.77 | 0.99 | 0.93 | 0.85 | 0.68 | 0.1 | 0.52 |
| 410-419 | 55 | - | 0.6 | 0.82 | 0.97 | 0.18 | 0.94 | 0.98 | 0.85 | 0.97 | 0.96 | 0.91 | 0.83 | 0.04 | 0.65 |
| 420-429 | 55 | - | 0.49 | 0.92 | 0.99 | - | 0.97 | 0.99 | 0.94 | 0.94 | 0.98 | 0.96 | 0.94 | - | 0.81 |
| 430-439 | 55 | - | 0.39 | 1 | 1 | - | 1 | 1 | 1 | 0.9 | 1 | 1 | 1 | - | 1 |

Neotropical Ichthyology



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