

**APPENDIX TABLE A-4.** Updated listing of planktonic larval duration (PLD) estimates for west coast bony fishes, ordered alphabetically by family and species scientific name, with updated sources and related sources referenced therein footnoted.

| Family          | Species                            | PLD (days)         |
|-----------------|------------------------------------|--------------------|
| Acipenseridae   | <i>Acipenser medirostris</i>       | 12 <sup>a</sup>    |
|                 | <i>Acipenser transmontanus</i>     | 15 <sup>b</sup>    |
| Agonidae        | <i>Bothragonus swanii</i>          | 48 <sup>c</sup>    |
| Albulidae       | <i>Albula sp A</i>                 | 195 <sup>d</sup>   |
| Atherinidae     | <i>Atherinops affinis</i>          | 24 <sup>c</sup>    |
|                 | <i>Atherinopsis californiensis</i> | 24                 |
|                 | <i>Leuresthes tenuis</i>           | 35                 |
| Aulorhynchidae  | <i>Aulorhynchus flavidus</i>       | 45                 |
| Blenniidae      | <i>Hysoblennius gentilis</i>       | 66                 |
|                 | <i>Hypsoblennius gilberti</i>      | 66                 |
|                 | <i>Hypsoblennius jenkinsi</i>      | 44                 |
| Clinidae        | <i>Heterostichus rostratus</i>     | 37                 |
| Clupeidae       | <i>Sardinops sagax</i>             | 44 <sup>e</sup>    |
| Cottidae        | <i>Artedius lateralis</i>          | 48                 |
|                 | <i>Clinocottus analis</i>          | 42                 |
|                 | <i>Clinocottus recalvus</i>        | 49                 |
|                 | <i>Enophrys bison</i>              | 50                 |
|                 | <i>Icelinus quadriseriatus</i>     | 60                 |
|                 | <i>Oligocottus maculosus</i>       | 50                 |
|                 | <i>Oligocottus snyderi</i>         | 51                 |
|                 | <i>Scorpaenichthys marmoratus</i>  | 105                |
|                 | <i>Synchirus gilli</i>             | 60                 |
| Gadidae         | <i>Theragra chalcogramma</i>       | 14-20 <sup>f</sup> |
| Gobiesocidae    | <i>Gobiesox maeandricus</i>        | 35                 |
| Gobiidae        | <i>Clevelandia ios</i>             | 26 <sup>f</sup>    |
|                 | <i>Eucyclogobius newberyi</i>      | 24 <sup>g</sup>    |
|                 | <i>Gillichthys mirabilis</i>       | 60                 |
|                 | <i>Lepidogobius lepidus</i>        | 60                 |
|                 | <i>Ophiodon elongatus</i>          | 74                 |
| Hexagrammidae   | <i>Lythrypnus zebra</i>            | 42                 |
|                 | <i>Girella nigricans</i>           | 60                 |
| Kyphosidae      | <i>Medialuna californiensis</i>    | 60                 |
|                 | <i>Halichoeres semicinctus</i>     | 30                 |
| Labridae        | <i>Oxyjulis californica</i>        | 39                 |
|                 | <i>Semicossyphus pulcher</i>       | 39                 |
|                 | <i>Lutjanus argentiventris</i>     | 26 <sup>h</sup>    |
| Lutjanidae      | <i>Lutjanus novemfasciatus</i>     | 22 <sup>g</sup>    |
|                 | <i>Merluccius productus</i>        | 88                 |
| Paralichthyidae | <i>Citharichthys sordidus</i>      | 271                |
|                 | <i>Citharichthys stigmaeus</i>     | 324                |
|                 | <i>Paralichthys californicus</i>   | 28 <sup>i</sup>    |
| Pholididae      | <i>Apodichthys flavidus</i>        | 50                 |
|                 | <i>Pholis laeta</i>                | 50                 |
| Pleuronectidae  | <i>Eopsetta jordani</i>            | 180                |

|                |                                        |                                   |
|----------------|----------------------------------------|-----------------------------------|
|                | <i>Glyptocephalus zachirus</i>         | 365                               |
|                | <i>Hippoglossus stenolepis</i>         | 180                               |
|                | <i>Microstomus pacificus</i>           | 365                               |
|                | <i>Parophrys vetulus</i>               | 147                               |
|                | <i>Pleuronichthys guttatus</i>         | 42                                |
|                | <i>Psettichthys melanostictus</i>      | 64                                |
| Polyprionidae  | <i>Stereolepis gigas</i>               | 27 <sup>j</sup>                   |
| Pomacentridae  | <i>Chromis punctipinnis</i>            | 35                                |
|                | <i>Hypsypops rubicundus</i>            | 20                                |
| Sciaenidae     | <i>Atractoscion nobilis</i>            | 29 <sup>k</sup> , 32 <sup>c</sup> |
|                | <i>Genyonemus lineatus</i>             | 40 <sup>l</sup>                   |
|                | <i>Seriphus politus</i>                | 45 <sup>l</sup>                   |
| Scorpaenidae   | <i>Scorpaena guttata</i>               | 45                                |
| Sebastidae     | <i>Sebastes atrovirens</i>             | 60                                |
|                | <i>Sebastes auriculatus</i>            | 86                                |
|                | <i>Sebastes autrora</i>                | 105                               |
|                | <i>Sebastes carnatus</i>               | 75                                |
|                | <i>S. Pteropodus carnatus/caurinus</i> | 50-95 <sup>m</sup>                |
|                | <i>Sebastes entomelas</i>              | 116                               |
|                | <i>Sebastes flavidus</i>               | 87                                |
|                | <i>Sebastes goodei</i>                 | 105                               |
|                | <i>Sebastes hopkinsi</i>               | 115                               |
|                | <i>Sebastes jordani</i>                | 103                               |
|                | <i>Sebastes melanops</i>               | 130, 85-18 <sup>n</sup>           |
|                | <i>Sebastes melanostomus</i>           | 105                               |
|                | <i>Sebastes mystinus</i>               | 130                               |
|                | <i>Sebastes paucispinis</i>            | 155                               |
|                | <i>Sebastes pinniger</i>               | 116                               |
|                | <i>Sebastes saxicola</i>               | 118                               |
|                | <i>Sebastes semicinctus</i>            | 570                               |
|                | <i>Sebastes serranoides</i>            | 150                               |
|                | <i>Sebastolobus altivelis</i>          | 570                               |
| Serranidae     | <i>Paralabrax clathratus</i>           | 28 <sup>o</sup>                   |
|                | <i>Paralabrax maculatofasciatus</i>    | 26 <sup>p</sup>                   |
|                | <i>Paralabrax nebulifer</i>            | 33 <sup>p</sup> , 21 <sup>p</sup> |
| Trichodontidae | <i>Trichodon trichodon</i>             | 70 <sup>c</sup>                   |

<sup>a</sup> Kynard et al. (2005)

<sup>b</sup> Deng et al. (2002)

<sup>c</sup> Shanks & Eckert (2005) and references cited therein

<sup>d</sup> Pfieler et al. (2000, 2008)

<sup>e</sup> Houde & Zastrow (1993)

<sup>f</sup> Brown et al (2001); Duffy-Anderson et al (2016)

<sup>g</sup> Spies et al. (2014)

<sup>h</sup> Zapata & Herron (2002)

<sup>i</sup> Sears-Hartley (1994)

<sup>j</sup> Benseman & Allen (2018)

<sup>k</sup> Donohoe (1997): 29 d for southern sub-region of Southern California Bight; cf Shanks & Eckert (2005):

32 d for northern sub-region of Southern California Bight

<sup>m</sup> Wheeler et al. (2017)

<sup>n</sup> Miller & Shanks (2004)

<sup>o</sup> Findlay & Allen (2002)

<sup>p</sup> Allen & Block (2012): 33 d for Southern California Bight, 21 d for Magdalena Bay, Baja California Sur