

Trophic Group	B	P/B	Q/B	Diet	Representative taxa
Humpback whales	Blake et al. 2011	Fulton et al. 2011	Fulton et al. 2011	DEH, 2011	<i>Megaptera novaeangliae</i>
Snubfin dolphin	Estimated by Ecopath	guesstimate	guesstimate	Bulman 2006	
Dolphins	Brown et al., 2013	Fulton et al. 2011	Fulton et al. 2011	Krutzen, 2014	Indo-pacific humpback, common bottlenose
Dugong	Holley and Prince 2008	Fulton et al. 2011	Fulton et al. 2011	Burkholder <i>et al.</i> , 2013	<i>Dugong dugon</i>
Coastal seabirds	WWF-Australia	Fulton et al. 2011	Fulton et al. 2011	Estrella, 2011	Terns, Greater frigatebirds, boobies,
River birds	Estimated by Ecopath	Gehrke 2007	Gehrke 2007	Taylor and Schultz, 2008	Great Egret
Migratory shorebirds	Estimated by Ecopath	Gehrke 2007	Gehrke 2007	Burger, 2001	Wedge-tailed shearwater,
Lethrinids adults	Westera 2003	Bulman 2006	Bulman 2006	www.fishbase.org ,	Bluespotted, Brownstripe, Spangled
Lethrinids juv	Estimated by Ecopath	Bulman 2006	Bulman 2006	www.fishbase.org	Bluespotted, Brownstripe, Spangled
Snappers	Estimated by Ecopath	Fish base	Fish base	www.fishbase.org	Crimson, Goldband, Saddletail, Frypan,
Adult Barramundi	Estimated by Ecopath	GBR model	GBR model	DoFWA 2014	<i>Lates calcarifer</i>
Juvenile Barramundi	Estimated by Ecopath	Fishbase	Fishbase	DoFWA 2014	<i>Lates calcarifer</i>
Threadfins	Estimated by Ecopath	GBR model (Gribble	GBR model (Gribble	www.fishbase.org	King and blue threadfins
Banana prawns	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	Rainer, 2010	<i>Fenneropenaeus merguensis</i>
Pearl oyster	Estimated by Ecopath	Bustamante et al. 2010	Bustamante et al. 2010	Doroudi et al., 2003	<i>Pinctada maxima</i>
Pelagic sharks	Fulton et al., 2011	www.fishbase.org	www.fishbase.org	www.fishbase.org	Blue whitetip
Rays	Bulman, 2006	Bulman 2006	Bulman 2006	www.fishbase.org	Whiskery, School Shark
Billfishes and Tunas	Estimated by Ecopath	Bulman 2006	Bulman 2006	www.fishbase.org	
Demersal sharks	Fulton et al. 2011	Bulman 2006	Bulman 2006	www.fishbase.org	Whiskery, School Shark
Lizardfish	Bulman, 2006	Bulman 2006	Bulman 2006	Ibrahim et al., 2003	<i>Saurida undosquamis</i>
Large Reef Associated	Newman et al. 2004	Fulton et al. 2011	Fulton et al. 2011	www.fishbase.org	parrotfishes, morays, breams
Small Reef Associated	Newman et al. 2004	Fulton et al. 2011	Fulton et al. 2011	www.fishbase.org	Cardinalfishes, blennies, gobbies, damsels, pipefish, chromis
Reef Associated Pelagics	Newman et al. 2004	Fulton et al. 2011	Fulton et al. 2011	Lek et al., 2011	Trevallies, queenfishes, wrasses, cods, groenars. goatfishes. darts. longtorns.
Shallow demersal fish	Newman et al. 2004	Fishbase	Fishbase	www.fishbase.org	Catfishes, flyingfishes, soldierfishes
Planktivore fish	Newman et al. 2004	Fishbase	Fishbase	www.fishbase.org	Herrings, anchovies,
Herbivorous fish	Newman et al. 2004	Fishbase	Fishbase	www.fishbase.org	Mullets, parrotfishes,
Estuarine fish	Newman et al. 2004	Fishbase	Fishbase	www.fishbase.org	Northern Mulloway, Glassfishes, cobblers, Hardyheads, Kimberley Morgurnda
Adult turtles	Fulton et al., 2011	Fulton et al. 2011	Fulton et al. 2011	Burkholder et al., 2013	Flatback, Loggerhead, Hawsbill,
Green sea turtles	Estimated by Ecopath	Fulton et al. 2011	Fulton et al. 2011	Burkholder et al., 2013	<i>Chelonia mydas</i>
Turtle hatchlings	Fulton et al., 2011	Fulton et al. 2011	Fulton et al. 2011	Boyle and Limpus 2008	Flatback, Loggerhead, Green Bockadam, Little Wart, White-bellied Mangrove
Sea snakes	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	Wirsing and Heithaus, 2009	
Adult crocodile	Fukuda et al. 2007	Gehrke 2007	Gehrke 2007	Whiting and Whiting, 2011	Estuarine crocodile
Juveniles crocodiles	Fukuda et al. 2007	DEC 2009	DEC 2009	Whiting and Whiting, 2012	Estuarine crocodile
Cane toad	Estimated by Ecopath	Pine and Kwak 2007	Pine and Kwak 2007	Dam et al., 2002	<i>Bufo marinus</i>
Hard coral	Fry et al., 2008.	Fulton et al. 2011	Fulton et al. 2011	Bessel-Browse et al., 2014	Hermatypic scleractinians, Azooxanthellates
Soft coral	Estimated by Ecopath	Fulton et al. 2011	Fulton et al. 2011	Fulton et al., 2011	§° "Ê11 ° ~ °
Squids	Fry et al., 2008.	Bulman 2006	Bulman 2006	Bulman 2006	<i>Sepioteuthis spp.</i> , <i>Loligo spp.</i>
Octopus	Fry et al., 2008.	Loneragan et al. 2011	Loneragan et al. 2011	Loneragan et al. 2011	<i>Octopus spp.</i> (mainly <i>O. tetricus</i>)
Lobster	Bustamante et al. 2010	Loneragan et al. 2011	Loneragan et al. 2011	Loneragan et al. 2011	Rock lobster
Other prawns	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	Tiger
Shells	Fry et al., 2008.	Fulton et al. 2011	Fulton et al. 2011	Compton et al., 2008	Gastropods
Mud crab	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	<i>Scylla serrata</i>
Crabs	Fry et al., 2008.	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	Blue swimmer
Sea cucumbers	Fry et al., 2008.	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	<i>Holothuria leucospilota</i>
Echinoderms	Fromont 2004; Fry et al., 2008.	Fulton et al. 2011	Fulton et al. 2011	Fulton et al. 2011	sea urchins, sea stars, crinoids
Sponges	Fromont 2004; Fry et al., 2008.	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	<i>Cymbastella sp.</i> & <i>Phyllospongia papyracea.</i>
Epibenthos	Fromont 2004; Fry et al., 2008.	Bustamante et al. 2010	Bustamante et al. 2010	Bustamante et al. 2010	
Salps & Jellyfish	Estimated by Ecopath	Bulman 2006	Bulman 2006	Graham and Kroutil, 1989	
Zooplankton	Hollyday et el. 2011	Bustamante et al. 2010	Bulman 2006	Bulman 2006	
Phytoplankton	Blondeau-Patisser et al. 2011	Bulman 2006			
Macrophytes	Fry et al., 2008.	Bustamante et al. 2010			
Seagrass	Fry et al., 2008.	Bustamante et al. 2010			
Mangroves	Estimated by Ecopath	Gehrke 2007			
Detritus					

Data origin for each of the main input parameters of the Ecopath model, Biomass (B), production (P/B), consumption (Q/B), diet and catch of the Kimberley ecosystem model constructed with Ecopath with Ecosim. The key criterion used here is that input from local data (colour red) as a rule is better than data from elsewhere or derived from empirical relationships or derived from other Ecopath models. This work will allow us (still in progress) to have an explicit consideration of uncertainties in the inputs.