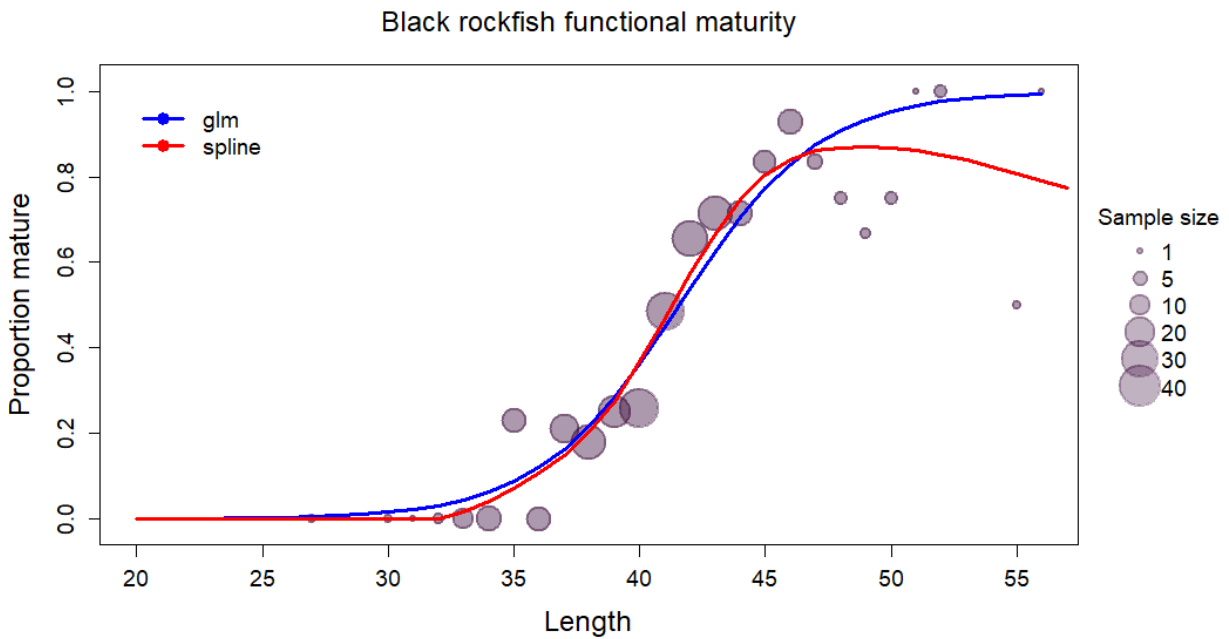
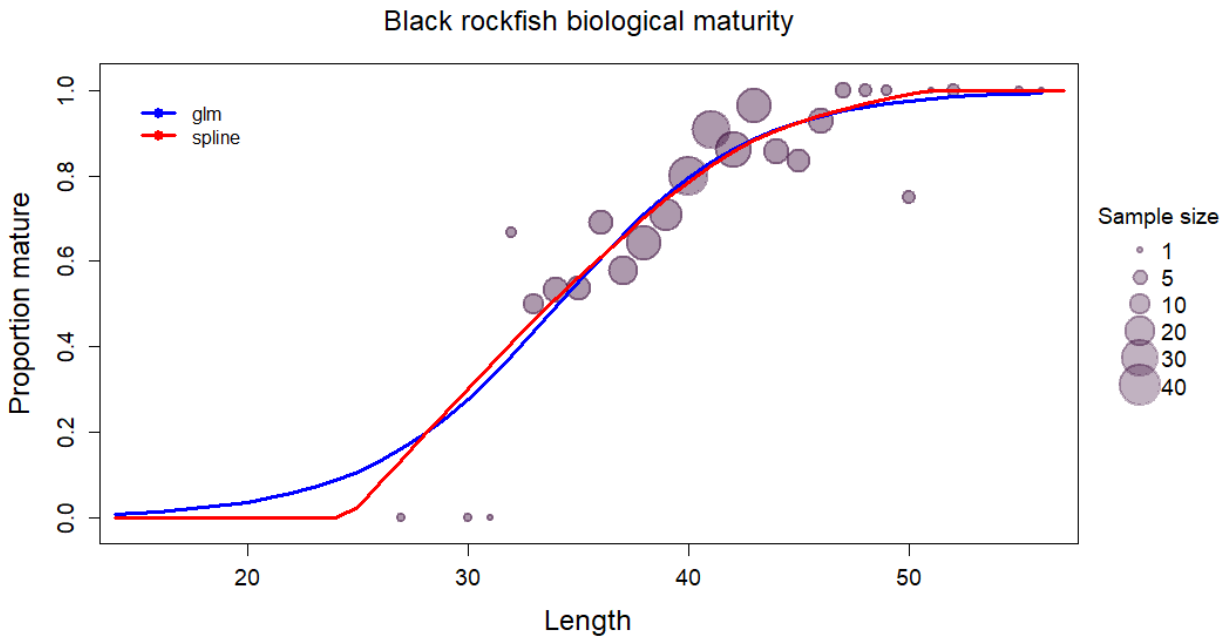


## Back Rockfish maturity analysis

Figures from preliminary maturity analysis

Data included in figures are from samples collected by ODFW 2014-2021 (n = 320), maturity analysis by Melissa Head. Figures do not include data from samples collected by Claire Rosemond at OSU.



*L50*, standard logistic regression results (preliminary)

Year (spawning season)	Source	n*	<i>L50</i> bio (95% CI)	<i>L50</i> func (95% CI)	<i>L50</i> change from bio to func
2014-2021	MH/ODFW	320	34.12 (1.11)	41.57 (0.99)	21.8% increase
2015 only	CR/OSU	95	35.55 (3.96)	40.83 (3.12)	14.8 % increase

\*Includes only samples collected September through April

Preliminary maturity analysis summary

Year (spawning season)	Source	n*	Prop mass atresia**	Prop bio mat	Prop func mat	Size range (cm)	Mean size (cm)
2014-2015	MH/ODFW	50	0.28	0.80	0.32	36-52	41.8
2015-2016	MH/ODFW	71	0.13	0.69	0.30	33-56	41.3
	CR/OSU	95	0	0.85	0.58	34-58	41.9
2016-2017	MH/ODFW	78	0.14	0.86	0.41	27-47	38.9
	CR/OSU	90					
2017-2018	CR/OSU	35					
2018-2019	CR/OSU	27					
2019-2020	MH/ODFW	50	0.06	0.68	0.44	31-50	39.1
	CR/OSU	87					
2020-2021	MH/ODFW	71	0.11	0.79	0.62	27-55	41.1
	CR/OSU	19					
<b>Total</b>		<b>673</b>					

\*Includes only samples collected September through April, \*\*Mass atresia defined as level 3-5 ( $\geq 25\%$ ) from non-post spawning fish

Preliminary parasite analysis summary

Year (spawning season)	Source	n*	n* with parasites	Prop with parasites	Prop with inflammation**	Prop with either/or parasite/inflammation
2014-2015	MH/ODFW	50	5	0.10	0.10	0.14
2015-2016	MH/ODFW	71	16	0.23	0.11	0.30
	CR/OSU	95	3	0.03	0.03	0.06
2016-2017	MH/ODFW	78	5	0.06	0.05	0.08
	CR/OSU	90	4	0.04	0.04	0.06
2017-2018	CR/OSU	35	5	0.14	0.06	0.17
2018-2019	CR/OSU	27	0	0	0.04	0.04
2019-2020	MH/ODFW	50	4	0.08	0.02	0.08
	CR/OSU	87	7	0.08	0.02	0.08
2020-2021	MH/ODFW	71	6	0.08	0.10	0.15
	CR/OSU	19	4	0.21	0	0.21
<b>Total</b>		<b>673</b>	<b>59</b>	<b>0.09</b>		

\*Includes only samples collected September through April, \*\*Inflammation refers to granulosa inflammation or granulomas