

S3 Table. Predicted lengths of brown shrimps associated to given retention probabilities (from $r = 5\%$ to $r = 95\%$) for different codend types and mesh sizes. Values $L50_{mean}$ and SR_{mean} estimated by the predictive framework. The numerical information presented here was used to plot the isolines for codend retention in Fig 5.

Codend Type	Mesh size	$L50_{mean}$	SR_{mean}	r5	r10	r15	r20	r25	r30	r35	r40	r45	r50	r55	r60	r65	r70	r75	r80	r85	r90	r95
<i>Diamond-mesh</i>	19	35.3	7.1	25.8	28.2	29.7	30.8	31.7	32.6	33.3	34.0	34.6	35.3	35.9	36.6	37.3	38.0	38.8	39.8	40.9	42.4	44.8
	20	36.9	7.5	26.9	29.5	31.1	32.2	33.2	34.1	34.8	35.6	36.3	36.9	37.6	38.3	39.0	39.8	40.7	41.6	42.8	44.4	46.9
	21	38.6	7.8	28.1	30.7	32.4	33.6	34.7	35.5	36.4	37.1	37.9	38.6	39.3	40.0	40.8	41.6	42.5	43.5	44.8	46.4	49.1
	22	40.2	8.2	29.2	32.0	33.7	35.0	36.1	37.0	37.9	38.7	39.4	40.2	40.9	41.7	42.5	43.3	44.3	45.4	46.7	48.4	51.2
	23	41.8	8.6	30.3	33.2	35.0	36.4	37.5	38.5	39.3	40.2	41.0	41.8	42.5	43.3	44.2	45.1	46.1	47.2	48.5	50.3	53.3
	24	43.3	9.0	31.3	34.4	36.3	37.7	38.9	39.9	40.8	41.7	42.5	43.3	44.2	45.0	45.9	46.8	47.8	49.0	50.4	52.3	55.3
	25	44.9	9.3	32.4	35.6	37.5	39.0	40.2	41.3	42.3	43.2	44.0	44.9	45.7	46.6	47.5	48.5	49.5	50.8	52.2	54.2	57.4
	26	46.4	9.7	33.4	36.7	38.7	40.3	41.6	42.7	43.7	44.6	45.5	46.4	47.3	48.2	49.1	50.1	51.3	52.5	54.1	56.1	59.4
	27	47.9	10.1	34.4	37.8	40.0	41.6	42.9	44.0	45.1	46.1	47.0	47.9	48.8	49.8	50.7	51.8	52.9	54.3	55.9	58.0	61.4
	28	49.4	10.4	35.4	38.9	41.1	42.8	44.2	45.4	46.5	47.5	48.4	49.4	50.3	51.3	52.3	53.4	54.6	56.0	57.6	59.8	63.4
	29	50.9	10.8	36.4	40.0	42.3	44.0	45.4	46.7	47.8	48.9	49.9	50.9	51.8	52.9	53.9	55.0	56.3	57.7	59.4	61.7	65.4
	30	52.3	11.2	37.3	41.1	43.5	45.2	46.7	48.0	49.1	50.2	51.3	52.3	53.3	54.4	55.5	56.6	57.9	59.4	61.1	63.5	67.3
	31	53.7	11.6	38.2	42.2	44.6	46.4	47.9	49.3	50.5	51.6	52.7	53.7	54.8	55.9	57.0	58.2	59.5	61.0	62.9	65.3	69.2
	32	55.1	11.9	39.1	43.2	45.7	47.6	49.2	50.5	51.8	52.9	54.0	55.1	56.2	57.3	58.5	59.7	61.1	62.7	64.5	67.1	71.1
	33	56.5	12.3	40.0	44.2	46.8	48.7	50.3	51.8	53.0	54.2	55.4	56.5	57.6	58.8	60.0	61.3	62.7	64.3	66.2	68.8	73.0
	34	57.9	12.7	40.9	45.2	47.8	49.9	51.5	53.0	54.3	55.5	56.7	57.9	59.0	60.2	61.4	62.8	64.2	65.9	67.9	70.5	74.9
	35	59.2	13.1	41.7	46.1	48.9	51.0	52.7	54.2	55.5	56.8	58.0	59.2	60.4	61.6	62.9	64.2	65.7	67.4	69.5	72.3	76.7
	36	60.5	13.4	42.5	47.1	49.9	52.0	53.8	55.3	56.7	58.0	59.3	60.5	61.7	63.0	64.3	65.7	67.2	69.0	71.1	74.0	78.5
<i>Square-mesh</i>	17	34.4	5.9	26.5	28.5	29.7	30.7	31.4	32.1	32.7	33.3	33.8	34.4	34.9	35.4	36.0	36.6	37.3	38.1	39.0	40.2	42.2

	18	36.4	6.4	27.8	30.0	31.3	32.3	33.2	33.9	34.6	35.2	35.8	36.4	37.0	37.6	38.2	38.9	39.6	40.4	41.5	42.8	45.0
	19	38.4	7.0	29.0	31.4	32.9	34.0	34.9	35.7	36.4	37.1	37.8	38.4	39.0	39.7	40.4	41.1	41.9	42.8	43.9	45.4	47.8
	20	40.4	7.6	30.2	32.8	34.4	35.6	36.6	37.5	38.3	39.0	39.7	40.4	41.1	41.8	42.6	43.4	44.2	45.2	46.4	48.0	50.6
	21	42.4	8.3	31.4	34.2	35.9	37.2	38.3	39.3	40.1	40.9	41.7	42.4	43.2	44.0	44.8	45.6	46.6	47.7	49.0	50.7	53.5
	22	44.5	8.9	32.5	35.5	37.4	38.8	40.0	41.0	42.0	42.8	43.7	44.5	45.3	46.1	47.0	47.9	48.9	50.1	51.5	53.4	56.4
	23	46.5	9.6	33.6	36.9	38.9	40.4	41.7	42.8	43.8	44.7	45.6	46.5	47.4	48.3	49.2	50.2	51.3	52.6	54.1	56.1	59.4
	24	48.5	10.4	34.6	38.1	40.3	42.0	43.3	44.5	45.6	46.6	47.6	48.5	49.5	50.4	51.4	52.5	53.7	55.1	56.7	58.9	62.4
	25	50.5	11.1	35.6	39.4	41.7	43.5	45.0	46.2	47.4	48.5	49.5	50.5	51.6	52.6	53.7	54.8	56.1	57.6	59.3	61.7	65.5
	26	52.6	11.9	36.6	40.6	43.1	45.0	46.6	48.0	49.2	50.4	51.5	52.6	53.6	54.8	55.9	57.2	58.5	60.1	62.0	64.5	68.6
	27	54.6	12.8	37.5	41.8	44.5	46.5	48.2	49.7	51.0	52.2	53.4	54.6	55.7	56.9	58.2	59.5	61.0	62.6	64.7	67.3	71.7
	28	56.6	13.6	38.3	43.0	45.8	48.0	49.8	51.3	52.8	54.1	55.4	56.6	57.8	59.1	60.4	61.9	63.4	65.2	67.4	70.2	74.9
	29	58.6	14.5	39.2	44.1	47.2	49.5	51.4	53.0	54.5	55.9	57.3	58.6	59.9	61.3	62.7	64.2	65.9	67.8	70.1	73.1	78.1
<i>T90</i>	19	39.0	7.5	28.9	31.4	33.0	34.2	35.2	36.1	36.8	37.6	38.3	39.0	39.7	40.4	41.1	41.9	42.7	43.7	44.9	46.5	49.1
	20	40.4	7.9	29.8	32.5	34.2	35.4	36.5	37.4	38.2	39.0	39.7	40.4	41.2	41.9	42.7	43.5	44.4	45.4	46.7	48.4	51.1
	21	41.9	8.3	30.7	33.6	35.3	36.6	37.7	38.7	39.6	40.4	41.1	41.9	42.7	43.4	44.3	45.1	46.1	47.2	48.5	50.2	53.1
	22	43.4	8.7	31.7	34.6	36.5	37.9	39.0	40.0	40.9	41.8	42.6	43.4	44.2	45.0	45.8	46.7	47.7	48.9	50.3	52.1	55.1
	23	44.8	9.1	32.6	35.7	37.6	39.1	40.3	41.3	42.3	43.2	44.0	44.8	45.7	46.5	47.4	48.4	49.4	50.6	52.1	54.0	57.1
	24	46.3	9.5	33.5	36.8	38.8	40.3	41.6	42.6	43.6	44.6	45.4	46.3	47.2	48.1	49.0	50.0	51.1	52.3	53.8	55.8	59.1
	25	47.8	9.9	34.5	37.9	39.9	41.5	42.8	44.0	45.0	46.0	46.9	47.8	48.7	49.6	50.6	51.6	52.7	54.0	55.6	57.7	61.1
	26	49.3	10.3	35.4	38.9	41.1	42.7	44.1	45.3	46.3	47.4	48.3	49.3	50.2	51.2	52.2	53.2	54.4	55.8	57.4	59.6	63.1
	27	50.7	10.7	36.4	40.0	42.3	44.0	45.4	46.6	47.7	48.7	49.7	50.7	51.7	52.7	53.7	54.9	56.1	57.5	59.2	61.4	65.1
	28	52.2	11.1	37.3	41.1	43.4	45.2	46.6	47.9	49.1	50.1	51.2	52.2	53.2	54.2	55.3	56.5	57.8	59.2	61.0	63.3	67.1

29	53.7	11.5	38.2	42.2	44.6	46.4	47.9	49.2	50.4	51.5	52.6	53.7	54.7	55.8	56.9	58.1	59.4	60.9	62.8	65.2	69.1
30	55.1	11.9	39.2	43.2	45.7	47.6	49.2	50.5	51.8	52.9	54.0	55.1	56.2	57.3	58.5	59.7	61.1	62.6	64.5	67.0	71.1
31	56.6	12.3	40.1	44.3	46.9	48.8	50.5	51.9	53.1	54.3	55.5	56.6	57.7	58.9	60.1	61.4	62.8	64.4	66.3	68.9	73.1
32	58.1	12.7	41.0	45.4	48.0	50.1	51.7	53.2	54.5	55.7	56.9	58.1	59.2	60.4	61.7	63.0	64.4	66.1	68.1	70.8	75.1
33	59.5	13.1	42.0	46.4	49.2	51.3	53.0	54.5	55.9	57.1	58.3	59.5	60.7	62.0	63.2	64.6	66.1	67.8	69.9	72.6	77.1
34	61.0	13.5	42.9	47.5	50.4	52.5	54.3	55.8	57.2	58.5	59.8	61.0	62.2	63.5	64.8	66.2	67.8	69.5	71.7	74.5	79.1
35	62.5	13.9	43.9	48.6	51.5	53.7	55.5	57.1	58.6	59.9	61.2	62.5	63.8	65.0	66.4	67.8	69.4	71.3	73.5	76.4	81.1
36	64.0	14.3	44.8	49.7	52.7	54.9	56.8	58.4	59.9	61.3	62.6	64.0	65.3	66.6	68.0	69.5	71.1	73.0	75.2	78.2	83.1