Table 2: Index values and estimated coefficients of variation (CVs) from alternative approaches to developing YOY indices.

Bocaccio	sum antilog ANOVA		antilog sums ANOVA		Delta-GLM		VAST	
	Index	CV	Index	CV	Index	CV	Index	CV
2004	6.878	0.172	1.405	0.256	11.622	0.318	703	0.504
2005	7.216	0.171	1.724	0.237	7.193	0.318	2484	0.364
2006	6.471	0.17	0.987	0.228	2.831	0.46	97	0.75
2007	6.739	0.17	1.227	0.243	8.368	0.349	641	0.499
2008	6.613	0.17	1.115	0.246	8.705	0.355	1377	0.721
2009	6.852	0.171	1.414	0.246	7.692	0.413	1493	0.721
2010	0.632	0.171	1.414	0.200	7.092	0.413	3549	0.498
2011							184	0.791
2012							989	0.887
2013	9.556	0.166	5.94	0.299	21.754	0.378	71157	0.554
2014	7.327	0.169	2.023	0.321	5.458	0.367	5945	0.436
2015	8.481	0.166	4.521	0.251	9.523	0.302	9366	0.33
2016	6.43	0.174	2.333	0.555	9.169	0.438	5430	0.433
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Blue/Deacon	sum antilog ANOVA		antilog sums ANOVA		Delta-GLM		VAST	
	Index	CV	Index	CV	Index	CV	Index	CV
2001	6.104	0.279	2.659	0.503	5.482	0.299	2288	0.436
2002	10.024	0.278	12.423	0.495	8.912	0.257	13937	0.289
2003	7.327	0.278	4.685	0.488	6.674	0.244	5729	0.387
2004	8.946	0.278	13.53	0.469	16.367	0.26	18113	0.291
2005	5.97	0.28	2.306	0.473	3.718	0.279	4132	0.311
2006	5.119	0.278	1.16	0.464	1.421	1.553	542	0.855
2007	5.218	0.277	1.274	0.461	4.456	0.375	420	0.52
2008	5.177	0.279	1.225	0.477	2.034	0.526	192	0.629
2009	5.534	0.275	1.683	0.466	3.278	0.314	2129	0.29
2010	3.33 .	0.275	2.005	01.00	3.270	0.01	1240	0.769
2011	6.283	0.281	3.102	0.5	7.909	0.42	1913	0.557
2011	0.263	0.281	3.102	0.5	7.909	0.42	542	0.855
	10.645	0.272	205 426	0.712	22.066	0.220		
2013	18.645	0.272	305.436		22.066	0.328	64142	0.203
2014	7.316	0.271	7.709	0.685	5.221	0.361	5002	0.352
2015	5.129	0.235	1.182	0.637	4.703	0.428	1340	0.54
2016	5.526	0.385	0	0	4.995	0.549	12412	0.475
Yellowtail	sum antilog ANOVA		antilog sums ANOVA		Delta-GLM		VAST	
	Index	CV	Index	CV	Index	CV	Index	CV
2004	5.575	0.314	13.624	0.33	18.472	0.316	14765	0.283
2005	3.892	0.314	1.62	0.333	5.669	0.328	1756	0.357
2006	3.518	0.313	1.214	0.327	1.531	0.72	45	1.078
2007	3.442	0.314	1.159	0.325	1.7	0.69	57	1.057
2008	3.846	0.314	2.239	0.335	4.341	0.324	4280	0.485
2009	3.732	0.31	1.884	0.328	4.354	0.315	3663	0.654
2010							129	0.993
2011	3.726	0.315	1.52	0.35	2.866	0.563	585	0.984
	3.720	0.313	1.52	0.33	2.800	0.505		
2012	4 477	0.220	42.604	0.407	40.266	0.42	129	0.993
2013	4.477	0.238	12.694	0.487	10.366	0.42	20243	0.474
2014	4.167	0.236	8.213	0.471	8.912	0.444	7323	0.359
2015	2.689	0.21	1.041	0.442	3.315	0.645	1957	0.577
2016	2.954	0.29	0	0	4.603	0.614	42874	0.432
Shortbelly	sum antilog ANOVA		antilog sums ANOVA		Delta-GLM		VAST	
	Index	CV	Index	CV	Index	CV	Index	CV
2004		0.027	10.099	0.67	11.849	0.666	6091	0.467
	2.602	0.827						0.303
2005	2.602 8.011	0.827	106.005	0.592	55.807	0.528	157359	0.505
2005 2006	8.011	0.854		0.592 0.578			157359 1962	0.576
2006	8.011 2.04	0.854 0.812	106.005 3.018	0.578	4.066	0.863	1962	0.576
2006 2007	8.011 2.04 3.625	0.854 0.812 0.837	106.005 3.018 17.624	0.578 0.64	4.066 18.742	0.863 0.62	1962 18509	0.576 0.406
2006 2007 2008	8.011 2.04 3.625 2.416	0.854 0.812 0.837 0.81	106.005 3.018 17.624 6.573	0.578 0.64 0.636	4.066 18.742 8.838	0.863 0.62 0.739	1962 18509 7666	0.576 0.406 0.352
2006 2007 2008 2009	8.011 2.04 3.625 2.416 4.676	0.854 0.812 0.837 0.81 0.825	106.005 3.018 17.624 6.573 79.865	0.578 0.64 0.636 0.826	4.066 18.742 8.838 13.902	0.863 0.62 0.739 0.61	1962 18509 7666 32000	0.576 0.406 0.352 0.402
2006 2007 2008 2009 2010	8.011 2.04 3.625 2.416	0.854 0.812 0.837 0.81	106.005 3.018 17.624 6.573	0.578 0.64 0.636	4.066 18.742 8.838	0.863 0.62 0.739	1962 18509 7666 32000 62008	0.576 0.406 0.352 0.402 0.412
2006 2007 2008 2009 2010 2011	8.011 2.04 3.625 2.416 4.676	0.854 0.812 0.837 0.81 0.825	106.005 3.018 17.624 6.573 79.865	0.578 0.64 0.636 0.826	4.066 18.742 8.838 13.902	0.863 0.62 0.739 0.61	1962 18509 7666 32000 62008 7550	0.576 0.406 0.352 0.402 0.412 1.186
2006 2007 2008 2009 2010 2011 2012	8.011 2.04 3.625 2.416 4.676 3.323	0.854 0.812 0.837 0.81 0.825 0.9	106.005 3.018 17.624 6.573 79.865 27.044	0.578 0.64 0.636 0.826 0.853	4.066 18.742 8.838 13.902 12.817	0.863 0.62 0.739 0.61 0.931	1962 18509 7666 32000 62008 7550	0.576 0.406 0.352 0.402 0.412 1.186 1.186
2006 2007 2008 2009 2010 2011 2012 2013	8.011 2.04 3.625 2.416 4.676 3.323	0.854 0.812 0.837 0.81 0.825 0.9	106.005 3.018 17.624 6.573 79.865 27.044	0.578 0.64 0.636 0.826 0.853	4.066 18.742 8.838 13.902 12.817	0.863 0.62 0.739 0.61 0.931	1962 18509 7666 32000 62008 7550 7550 1526456	0.576 0.406 0.352 0.402 0.412 1.186 1.186 0.287
2006 2007 2008 2009 2010 2011 2012 2013 2014	8.011 2.04 3.625 2.416 4.676 3.323	0.854 0.812 0.837 0.81 0.825 0.9	106.005 3.018 17.624 6.573 79.865 27.044 85988.419 1792.581	0.578 0.64 0.636 0.826 0.853 0.794 0.9	4.066 18.742 8.838 13.902 12.817	0.863 0.62 0.739 0.61 0.931	1962 18509 7666 32000 62008 7550 7550 1526456 214435	0.576 0.406 0.352 0.402 0.412 1.186 1.186 0.287 0.388
2006 2007 2008 2009 2010 2011 2012 2013	8.011 2.04 3.625 2.416 4.676 3.323	0.854 0.812 0.837 0.81 0.825 0.9	106.005 3.018 17.624 6.573 79.865 27.044	0.578 0.64 0.636 0.826 0.853	4.066 18.742 8.838 13.902 12.817	0.863 0.62 0.739 0.61 0.931	1962 18509 7666 32000 62008 7550 7550 1526456	0.576 0.406 0.352 0.402 0.412 1.186 1.186 0.287