NOAA FISHERIES

SW Fisheries Science Center

Groundfish and CPS Assessment Review Process

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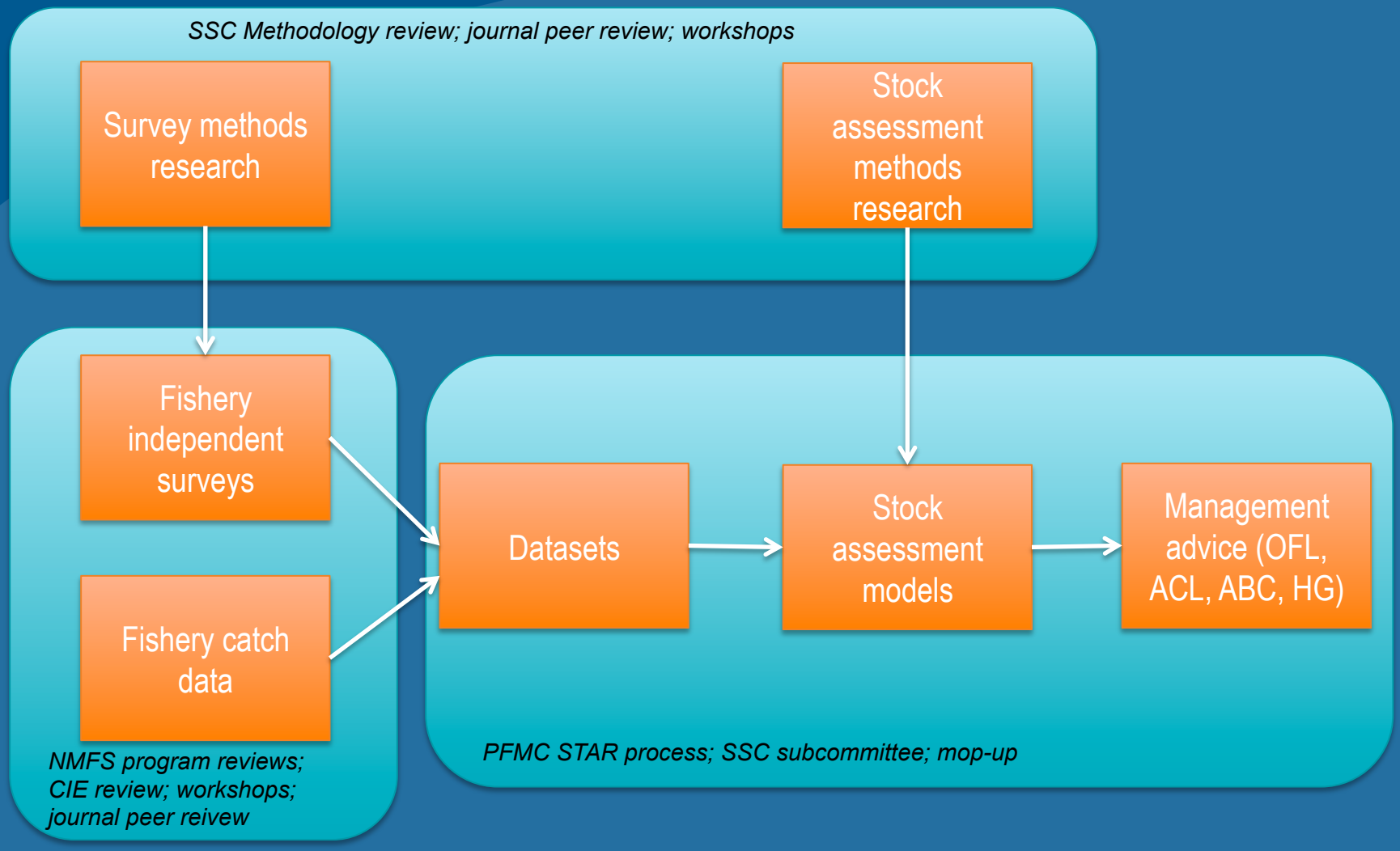
Fisheries Ecology Division
29 July 2014


SSC Methodology review; journal peer review; workshops
Survey methods research
Stock assessment methods research
Fishery independent surveys
Fishery catch data
NMFS program reviews; CIE review; workshops; journal peer reivew
Datasets
Stock assessment models
Management advice (OFL, ACL, ABC, HG)
PFMC STAR process; SSC subcommittee; mop-up

TERMS OF REFERENCE

FOR THE

GROUNDFISH AND COASTAL PELAGIC SPECIES STOCK ASSESSMENT AND REVIEW PROCESS FOR 2013-2014

PACIFIC FISHERY MANAGEMENT COUNCIL

Roles

Party	Roles and Responsibilities
SSC	Provide panel chair; review post-STAR assessment doc and STAR panel report; provide management advice to PFMC
Subcommittees	Review update and data-moderate assessments, rebuilding analyses, and results of mop-up panel
PFMC	Provide panel reps from relevant groups
NMFS Science Centers	STAR panel logistics support: scheduling. ID STAR panel members, $

Decision Tables in Groundfish Stock Assessments

Table E8: Decision Table for the bocaccio assessment, where State 1 has the triennial and trawl CPUE indices emphasized, and State 2 emphasizes southern rec CPUE and the CalCOFI indices.

		State1 (low biomass)		Base Model		State2(high biomass)	
catch with 2008 F		larvae	depletion	larvae	depletion	larvae	depletion
2009	65	1034540	0.15	2209950	0.28	2658620	0.38
2010	62	1056130	0.15	2259880	0.29	2715680	0.39
2011	62	1059020	0.15	2267600	0.29	2720120	0.39
2012	68	1076100	0.15	2289230	0.29	2736480	0.40
2013	78	1133840	0.16	2371870	0.30	2819550	0.41
2014	90	1224880	0.18	2506410	0.32	2959720	0.43
2015	102	1337490	0.19	2675120	0.34	3137450	0.45
2016	113	1464190	0.21	2865660	0.36	3338590	0.48
2017	123	1600700	0.23	3069460	0.39	3552450	0.51
2018	129	1744400	0.25	3280130	0.42	3770470	0.55
2019	136	1893960	0.27	3493470	0.44	3986640	0.58
2020	142	2048240	0.29	3706040	0.47	4196180	0.61
SPR 0.77 (base)		larvae	depletion	larvae	depletion	larvae	depletion
2009	267	1034540	0.15	2209950	0.28	2658620	0.38
2010	251	1025030	0.15	2228890	0.28	2684700	0.39
2011	246	997328	0.14	2206150	0.28	2658730	0.38
2012	265	986019	0.14	2199380	0.28	2646800	0.38
2013	299	1013570	0.14	2252490	0.29	2700770	0.39
2014	339	1068090	0.15	2352740	0.30	2807790	0.41
2015	377	1136160	0.16	2481040	0.32	2947220	0.43
2016	413	1210440	0.17	2625210	0.33	3105210	0.45
2017	445	1287560	0.18	2777630	0.35	3272010	0.47
2018	474	1365920	0.20	2933000	0.37	3440210	0.50
2019	500	1444790	0.21	3087910	0.39	3604600	0.52
2020	517	1523620	0.22	3239680	0.41	3761180	0.54
SPR 0.77(State 2)		larvae	depletion	larvae	depletion	larvae	depletion
2009	353	1034540	0.15	2209950	0.28	2658620	0.38
2010	326	1009690	0.14	2213630	0.28	2669450	0.39
2011	314	967342	0.14	2176350	0.28	2628970	0.38
2012	328	942839	0.13	2156410	0.27	2603940	0.38
2013	360	956879	0.14	2196410	0.28	2645010	0.38
2014	395	995845	0.14	2282340	0.29	2738290	0.40
2015	429	1045960	0.15	2394880	0.30	2863010	0.41
2016	459	1100950	0.16	2522930	0.32	3006440	0.43
2017	479	1158410	0.17	2659810	0.34	3159810	0.46
2018	497	1217370	0.17	2800930	0.36	3316360	0.48
2019	512	1277570	0.18	2943370	0.37	3471380	0.50
2020	527	1338790	0.19	3084810	0.39	3621160	0.52

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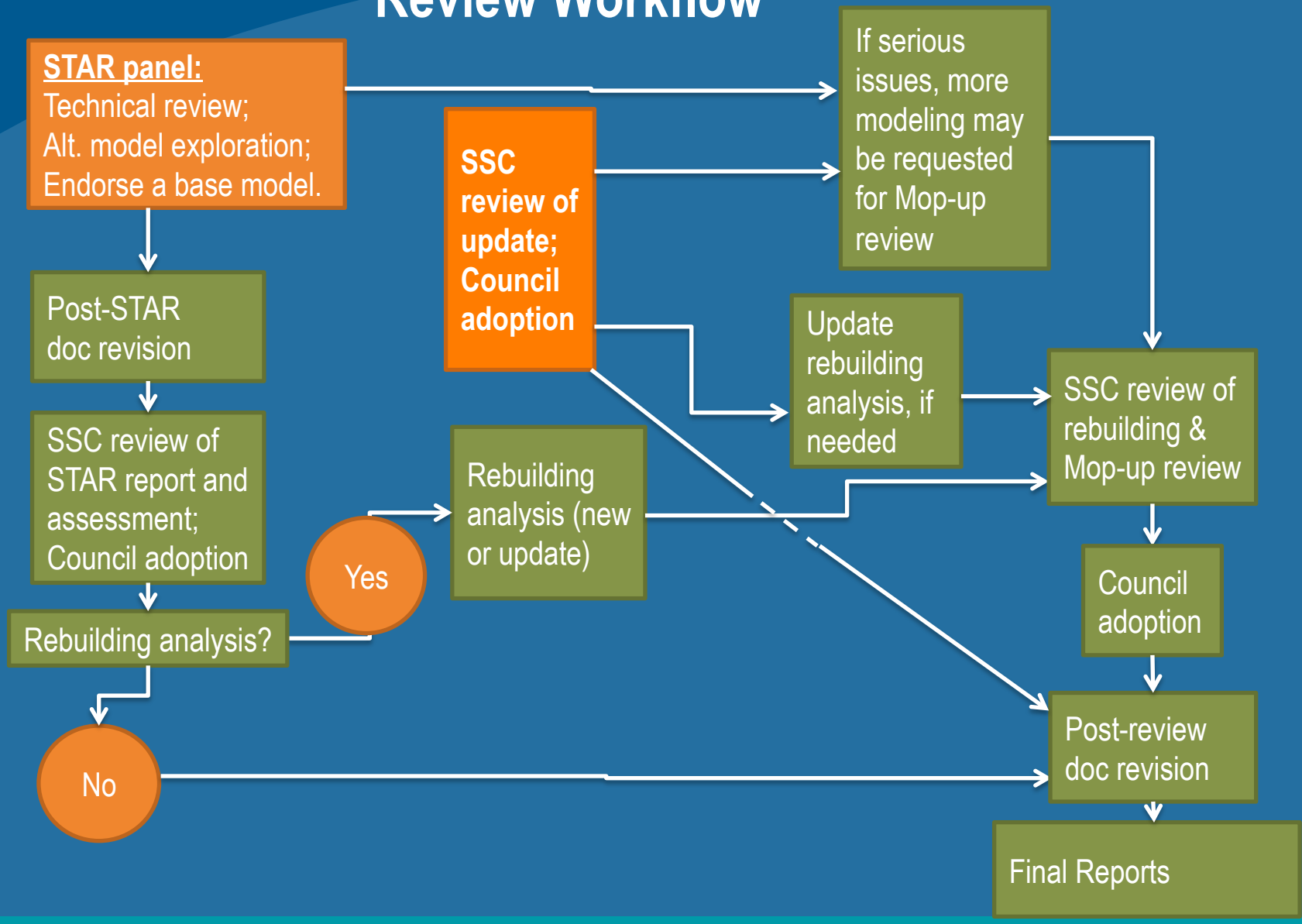
Field et al 2010.

STAR requests to STAT

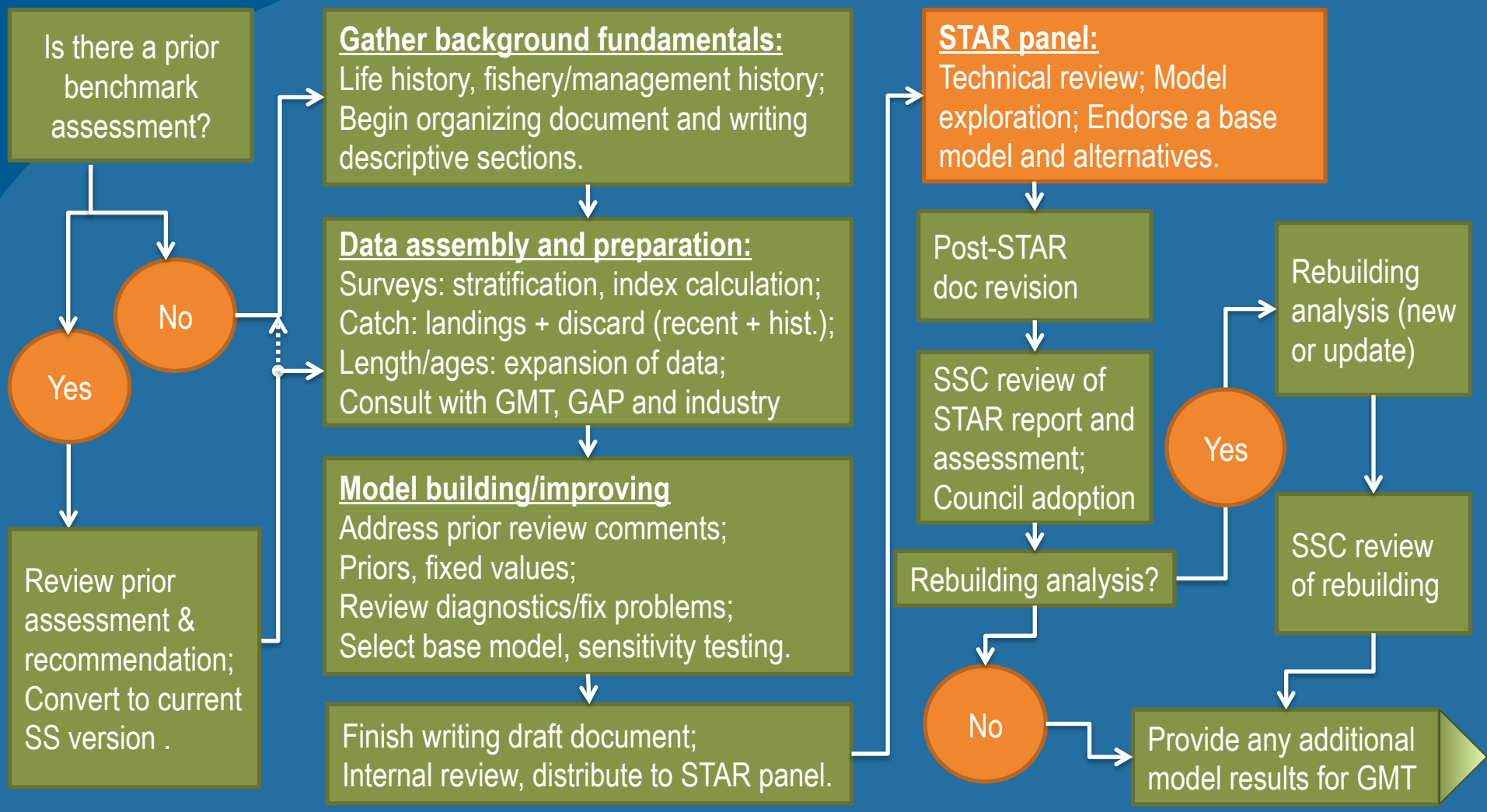
	STAR Requests				
Assessment	Results	Data	Model	Editorial	Total
Aurora	2	5	4	0	11
Bocaccio	2	9	2	2	15
Darkblotched	16	0	2	0	18
Longspine Thornyhead	5	2	6	2	15
Petrale	9	3	2	2	16
Rougheye/Blackspotted	9	4	0	3	16
Sanddab	4	3	5	1	13
Shortspine Thornyhead	10	9	11	0	30

Benchmark, Data-Moderate and Update Assessment Review Workflow



Benchmark Assessment Timeline

October November December January February March April May June July August September October



Throughput

- STAR-process output is highly constrained by available:
  - Reviewers
  - Scheduling constraints
  - May – July window

The Disappearing Review Window

2015 STAR Panel Schedule - Discussion Draft

April

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Too early – too late

No 4-day weeks

No BB weeks

BB lead time

Council meeting

Briefing Book Deadline for next Council meeting

Proposed STAR Panel Week

Holiday

Strengths, Challenges and Solutions

- Strengths
  - Thorough, independent, transparent reviews meeting the requirements of the MSA and providing information necessary for decision making
- Challenges
  - Limited number of slots to review benchmark assessments in STAR panels limits number of adequate assessments that can be reviewed each year
- Solutions
  - Data moderate assessments require less review time
  - Updates allow for renewing benchmarks periodically

Questions--discussion