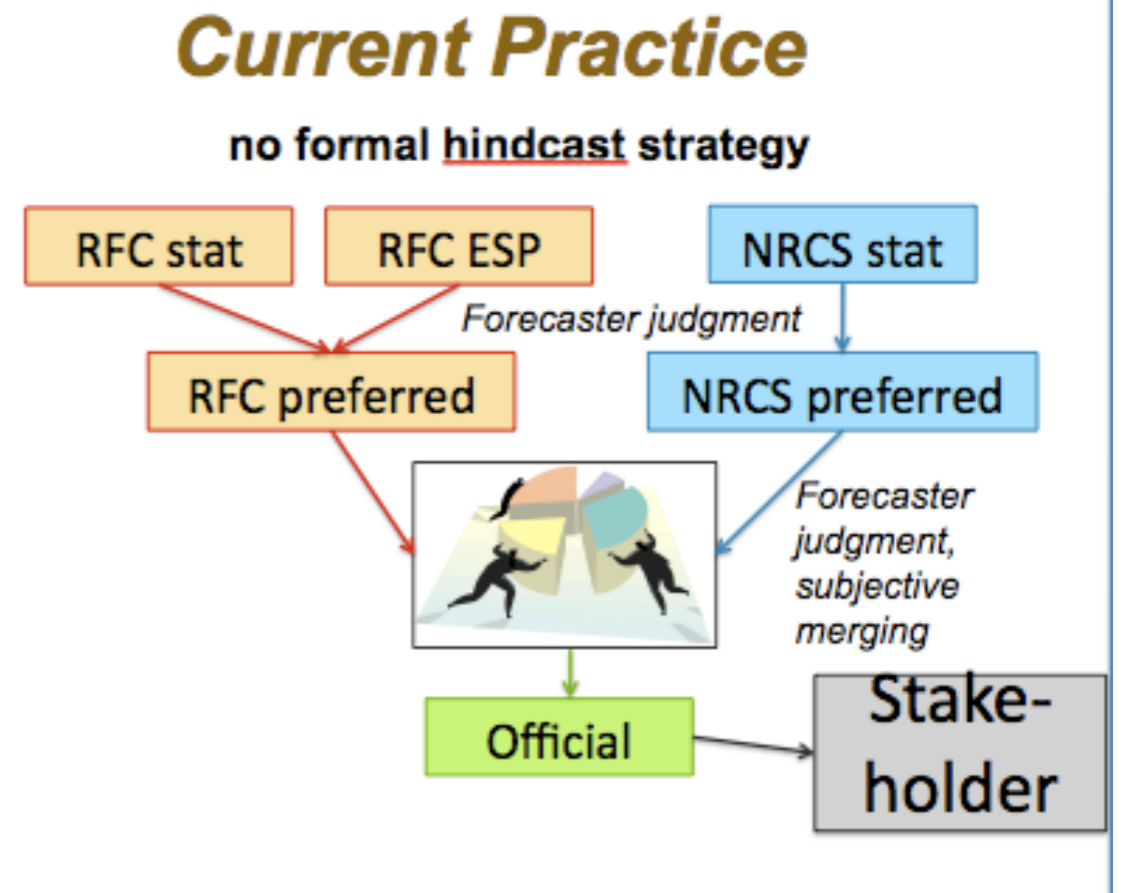


Water Supply Methodology

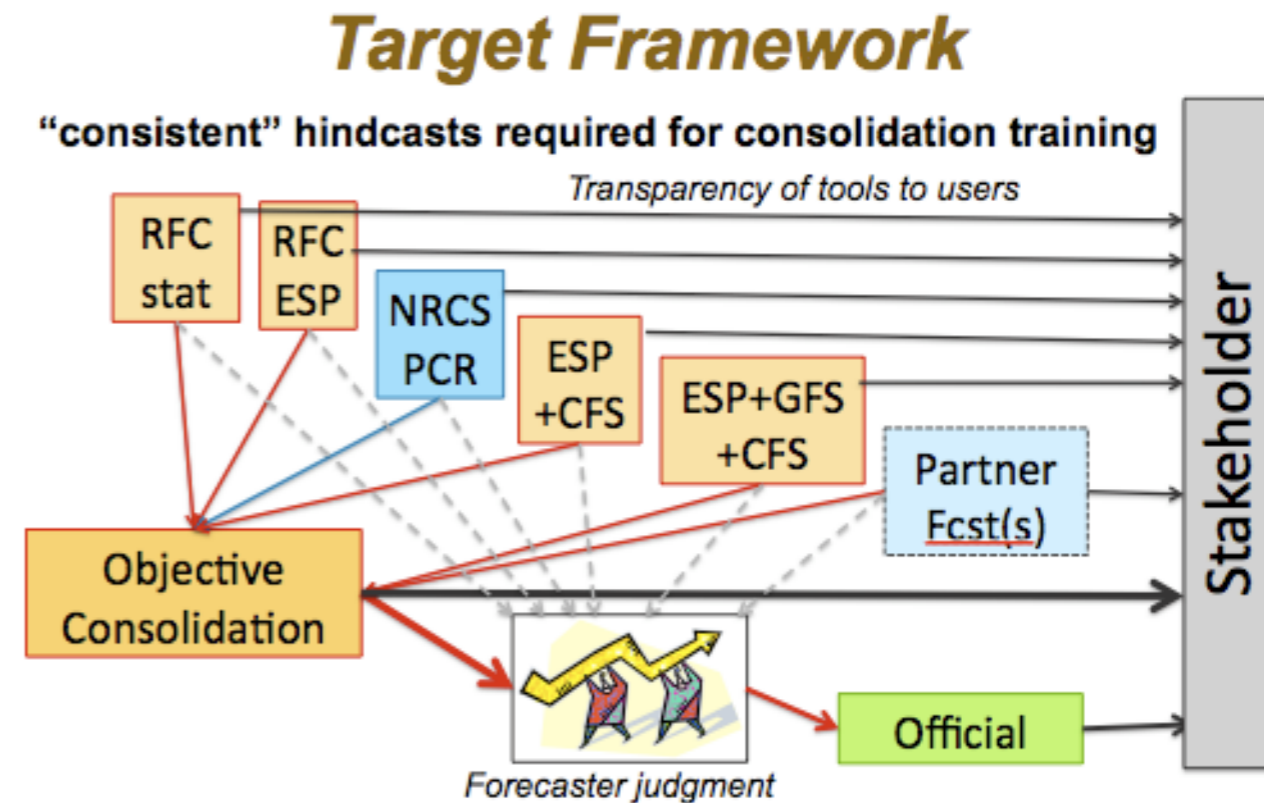
Present CBRFC Methods

- Official forecasts coordinated each month with NRCS/NWCC
- Skill primarily from accumulating snow pack
- Updated monthly or semi-monthly
- Probabilistic but not ensemble based
- Not repeatable
- Subjective
- Forecaster Role:
 - Monitor forecast process and system
 - Add judgement to forecast process



Future CBRFC Methods

- Objective, repeatable ensemble forecasts
- Integrate skill from weather and climate predications
- Tailor to stakeholder thresholds and concerns
- Forecaster role:
 - Monitor forecast process and system
 - Apply judgement (less frequently?)
 - Decision support
 - Work to improve forecast system and processes based on objective standards
 - Follow best practices identified by CPC



New Paradigm

Coordination becoming obsolete

- Slows down the process
- Not feasible with frequent updates
- Verification does not clearly show benefit

Use Objective Combination Method

- Ability to bring in new models
- Reproducible
- More scientifically sound
- Still need hydrologists input



Official NWS Forecast

- Users will have access to all model output - ESP, SWS, NRCS, etc.. new ones?
- NWS will also provide an official forecast:
 - Objective Combination Methodology with forecaster oversight and approval.



Prototype

Mail Calendar Documents Sites Groups Contacts More

cass.goodman@noaa.gov

uc_mar2012

Share

File Edit View Insert Format Data Tools Help All changes saved

Rich text editor toolbar with icons for undo, redo, bold, italic, text color, background color, bulleted list, numbered list, link, unlink, and print.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
1	March Most Probable																			
2	Forecast Point			ESP		SWS		Multi		CBRFC		NRCS		Coordinated		Average		Comments		
3	Name	ID	SB	5 days		no QPF		esp/sws		Preferred		Preferred		Suggested		30 Yr				
4	Colorado - Lake Granby; Granby; Nr	GBYC2	CO	183	83%	185	84%	182	83%	183	83%	180	82%	180	82%	180	82%	220		ES
5	Willow Ck - Willow Ck Res; Granby; Nr	WCRC2	CO	37	78%	36	77%	30	63%	33	71%	35	74%	35	74%	35	74%	47		SW
6	Fraser - Winter Park	FRWC2	CO	18	92%	18	94%	17	86%	17	89%	16.7	86%		0%	16.7	86%	19.4		Mu
7	Williams Fork - Williams Fork Res; Pars	WFDC2	CO	82	86%	82	86%	81	85%	82	85%	80	83%	80	83%	80	83%	96		CB
8	Blue - Dillon Res	DIRC2	CO	140	86%	145	89%	137	84%	138	85%	135	83%	135	83%	135	83%	162		NR
9	Blue - Green Mtn Res	GMRC2	CO	238	87%	238	87%	233	85%	236	86%	230	84%	230	84%	230	84%	275		Co
10	Muddy Ck - Wolford Mountain Reservoir	WORC2	CO	45	84%	45	84%	43	79%	44	81%	45	83%	45	83%	45	83%	54		Av
11	Colorado - Kremmling; Nr	KRMC2	CO	728	85%	727	85%	681	79%	705	82%	700	81%		0%	690	80%	860		Ind
12	Eagle - Gypsum; Blo	GPSC2	CO	240	72%	240	72%	263	79%	252	75%	250	75%	250	75%	250	75%	335		
13	Colorado - Dotsero; Nr	EGLC2	CO	1171	84%	1167	83%	1,098	78%	1,135	81%	1100	79%	1090	78%	1090	78%	1400		
14	Frying Pan - Ruedi Res; Basalt; Nr	RURC2	CO	101	73%	101	73%	103	74%	102	73%	103	74%	105	76%	105	76%	139		
15	Roaring Fork - Glenwood Springs	GWSC2	CO	532	77%	526	76%	487	71%	509	74%	520	75%	520	75%	520	75%	690		ESP 5
16	Colorado - Glenwood Springs; Blo	GCOC2	CO	1730	82%	1728	82%	1,579	75%	1,654	78%	1650	78%		0%	1640	78%	2110		ESP no C
17	Colorado - Cameo; Nr	CAMC2	CO	1931	82%	1917	81%	1,723	73%	1,827	77%	1790	76%	1760	75%	1760	75%	2360		S
18	Plateau Ck - Cameo; Nr	PCCC2	CO	120	97%	116	94%	81	65%	101	81%	95	77%		0%	95	77%	124		M
19	Colorado - Cisco; Nr	CLRU1	CO	3496	79%	3381	76%	3,149	71%	3,323	75%	3200	72%	3200	72%	3200	72%	4440		CBF
20	Mill Ck - Moab; Nr; Sheley Tun; At	MCMU1	CO		0%		0%	4	83%	2	42%	3.7	86%	3.7	86%	3.7	86%	4.3		NR
21	Colorado - Lake Powell; Glen Cyn Dam;	GLDA3	CO	5528	77%	5454	76%	5,000	70%	5,264	74%	5200	73%	5300	74%	5300	74%	7160		Co
22																				Avere

Add 20 more rows at bottom.

UC1 MM Mar UC1 MP Mar UC1 SWS Mar UC1 NRCS Mar UC1 ESP 0 Mar UC1 ESP 5 Mar UC1 Points Mar Sheet1

export (7).csv export (6).csv export (5).csv export (4).csv snotel_avg.zip

Show All

Timeline

Spring 2012 – Develop, evaluate and “get comfortable” with new methodology.

January 2013 – new method – no more legacy coordination with NRCS, use new “official NWS forecast”.