

Vedlegg 3 Ukesvannføringer før og etter tiltak for de forskjellige alternativ

Vedlegg 3 - Tabell 1 Karakteristiske ukesvannføringer. Rett nedstrøms inntak, punkt 1 (1938-2011) i m³/s.

Uke	Før tiltak					Etter tiltak				
	0-persentil	25-Persentil	50-Persentil	75-Persentil	100-Persentil	0-persentil	25-Persentil	50-Persentil	75-Persentil	100-Persentil
1	0,073	1,054	1,487	2,127	8,801	0,073	0,500	0,500	1,062	1,471
2	0,073	0,948	1,353	2,001	23,440	0,073	0,500	0,533	1,062	2,613
3	0,073	0,938	1,321	2,314	19,934	0,073	0,500	0,514	1,015	1,451
4	0,073	0,877	1,303	2,119	15,717	0,073	0,500	0,500	0,961	1,973
5	0,073	0,769	1,154	2,062	18,659	0,073	0,500	0,545	0,970	1,471
6	0,073	0,719	1,101	1,566	13,235	0,073	0,500	0,637	1,035	1,455
7	0,092	0,622	0,990	1,667	13,847	0,092	0,500	0,552	0,929	1,550
8	0,087	0,578	1,028	1,619	8,722	0,087	0,500	0,501	0,922	1,437
9	0,092	0,535	0,843	1,263	9,170	0,092	0,489	0,578	0,938	1,463
10	0,109	0,485	0,763	0,998	12,616	0,109	0,480	0,578	0,858	1,420
11	0,060	0,441	0,696	1,143	6,810	0,060	0,441	0,548	0,776	1,355
12	0,041	0,430	0,689	1,003	5,432	0,041	0,430	0,528	0,764	1,314
13	0,053	0,394	0,637	0,889	10,849	0,053	0,394	0,528	0,741	1,298
14	0,011	0,164	0,356	0,627	16,593	0,011	0,164	0,356	0,507	1,354
15	0,012	0,173	0,364	0,684	10,274	0,012	0,173	0,364	0,532	1,324
16	0,008	0,207	0,468	0,886	8,149	0,008	0,207	0,467	0,589	1,366
17	0,010	0,277	0,574	1,444	6,386	0,010	0,277	0,494	0,622	1,361
18	0,028	0,552	1,830	6,186	50,212	0,028	0,549	0,929	0,974	21,819
19	0,041	2,102	6,214	14,236	84,373	0,041	1,000	1,000	1,014	55,873
20	0,381	5,942	13,826	27,696	132,532	0,381	1,000	1,000	2,137	104,032
21	2,031	11,368	21,405	44,713	125,507	1,000	1,000	1,027	16,213	97,007
22	4,032	22,330	36,395	57,226	153,101	1,000	1,000	7,895	28,726	124,601
23	8,469	27,381	47,050	72,571	153,242	1,000	1,096	18,550	44,071	124,742
24	7,391	33,399	51,771	71,519	153,609	1,000	5,263	23,271	43,019	125,109
25	5,272	37,701	54,962	74,007	140,189	0,814	9,201	26,462	45,507	111,689
26	7,384	30,652	46,402	64,062	146,836	1,071	3,212	17,902	35,562	118,336
27	4,697	23,082	32,946	50,558	120,014	1,500	1,500	4,459	22,058	91,514
28	2,813	18,288	27,269	41,609	111,987	1,251	1,500	1,847	13,109	83,487
29	0,776	12,877	19,299	31,103	99,524	0,674	1,500	1,500	3,307	71,024
30	1,382	10,155	16,202	26,101	83,089	0,957	1,500	1,500	1,500	54,589
31	3,359	8,264	12,247	17,828	51,088	1,726	1,857	1,857	1,857	22,588
32	3,239	6,573	9,710	13,971	39,187	2,000	2,000	2,000	2,000	10,687
33	2,769	5,577	8,081	12,586	40,851	2,000	2,000	2,000	2,000	12,890
34	2,168	5,528	8,019	11,933	36,893	1,922	2,000	2,000	2,000	11,011
35	2,257	5,517	7,596	11,487	45,550	1,988	2,000	2,000	2,000	18,910
36	1,949	6,170	8,931	15,564	45,548	1,894	2,000	2,000	2,000	17,048
37	1,813	6,104	9,325	15,497	58,636	1,813	2,000	2,000	2,000	30,136
38	1,709	5,660	9,779	16,551	68,581	1,568	2,000	2,000	2,000	40,081
39	2,262	5,154	7,720	12,476	46,348	2,000	2,000	2,000	2,000	17,848
40	2,420	5,049	7,595	12,234	51,120	2,000	2,000	2,000	2,000	22,620
41	1,982	5,151	7,863	14,344	92,194	1,884	2,000	2,000	2,000	63,694
42	1,813	3,850	7,182	13,325	72,824	0,500	0,500	0,500	0,500	44,324
43	0,968	3,444	5,136	7,996	68,573	0,500	0,500	0,500	0,500	40,143
44	0,565	3,019	4,042	6,428	41,948	0,496	0,500	0,500	0,500	17,946
45	0,394	2,338	3,374	5,170	33,089	0,394	0,500	0,500	0,500	9,670
46	0,242	1,822	2,781	4,061	17,733	0,242	0,500	0,500	0,500	1,470
47	0,177	1,477	2,328	3,350	37,271	0,177	0,500	0,500	0,530	12,951
48	0,148	1,387	1,963	2,759	24,715	0,148	0,500	0,500	0,692	2,059
49	0,126	1,592	1,767	2,163	35,813	0,126	0,500	0,500	0,500	11,774
50	0,108	1,498	1,734	2,082	9,322	0,108	0,500	0,500	0,500	1,481
51	0,097	1,553	1,767	2,147	14,146	0,097	0,500	0,500	0,500	1,463
52	0,087	1,459	1,714	1,903	9,771	0,087	0,500	0,500	0,502	1,483

Vedlegg 3 - Tabell 2 Karakteristiske ukesvannføringer. Rett oppstrøms utløp av Hjartås kraftverk, Alt. C., punkt 2 (1967-2011) i m³/s.

Uke	Før tiltak					Etter tiltak				
	0-persentil	25-Persentil	50-Persentil	75-Persentil	100-Persentil	0-persentil	25-Persentil	50-Persentil	75-Persentil	100-Persentil
1	0,908	1,285	1,619	2,125	5,109	0,507	0,514	0,524	1,165	1,481
2	0,862	1,164	1,521	2,002	16,188	0,509	0,513	0,710	1,134	1,478
3	0,757	1,081	1,466	2,256	14,763	0,508	0,514	0,730	1,082	1,456
4	0,657	1,043	1,479	2,170	6,410	0,506	0,514	0,672	1,040	1,461
5	0,572	0,946	1,380	2,218	15,473	0,506	0,516	0,721	1,050	1,481
6	0,542	0,918	1,292	1,779	13,244	0,508	0,517	0,800	1,158	1,447
7	0,295	0,845	1,188	1,863	13,858	0,300	0,513	0,705	1,048	1,548
8	0,242	0,942	1,177	1,726	7,991	0,250	0,512	0,715	1,026	1,412
9	0,261	0,717	0,975	1,376	4,071	0,263	0,517	0,750	1,018	1,469
10	0,363	0,566	0,788	0,956	3,111	0,365	0,518	0,717	0,900	1,428
11	0,151	0,559	0,729	0,953	5,732	0,155	0,513	0,696	0,833	1,321
12	0,057	0,516	0,705	0,899	3,656	0,061	0,504	0,665	0,778	1,280
13	0,095	0,459	0,639	0,813	2,195	0,099	0,442	0,604	0,759	1,221
14	0,015	0,050	0,262	0,505	0,896	0,016	0,052	0,265	0,506	0,898
15	0,016	0,046	0,301	0,521	1,139	0,017	0,048	0,302	0,519	0,921
16	0,012	0,060	0,339	0,581	1,888	0,013	0,061	0,340	0,569	1,251
17	0,015	0,086	0,386	0,752	3,465	0,016	0,087	0,393	0,613	1,348
18	0,035	0,075	1,522	8,789	44,475	0,036	0,078	0,901	1,015	19,582
19	0,045	2,497	6,581	18,134	80,220	0,046	1,013	1,031	1,177	51,760
20	0,672	6,807	16,849	34,946	118,902	0,530	1,027	1,048	8,133	90,428
21	2,525	13,345	28,199	57,346	125,708	1,015	1,042	2,952	28,876	97,260
22	5,056	24,624	41,295	61,546	153,479	1,026	1,078	12,818	33,077	125,076
23	13,603	29,036	47,245	71,735	153,105	1,052	2,738	18,774	43,277	124,691
24	9,024	36,140	49,440	67,785	153,989	1,048	7,678	20,974	39,332	125,586
25	5,944	37,518	56,035	75,118	123,814	0,875	9,045	27,571	46,665	95,392
26	11,000	32,861	45,968	61,748	131,630	1,134	5,146	17,499	33,291	103,211
27	7,684	23,620	32,322	49,534	98,576	1,547	1,608	4,371	21,076	70,157
28	3,481	19,286	26,906	40,355	103,038	1,291	1,584	2,000	11,891	74,627
29	0,801	13,271	19,608	31,617	72,542	0,708	1,565	1,590	3,517	44,098
30	1,404	11,107	15,602	25,313	67,879	0,985	1,557	1,573	1,609	39,423
31	3,490	8,410	12,292	17,183	45,262	1,750	1,902	1,915	1,933	16,795
32	3,271	6,568	9,857	13,731	34,009	2,022	2,036	2,049	2,062	6,430
33	2,785	5,355	7,824	12,313	34,542	2,018	2,032	2,042	2,054	7,056
34	2,233	5,615	8,076	11,350	28,707	1,942	2,033	2,042	2,052	6,049
35	2,280	5,552	7,874	11,893	27,403	2,008	2,031	2,039	2,050	2,562
36	1,963	6,642	9,789	16,666	44,486	1,914	2,031	2,039	2,056	16,006
37	1,828	6,436	9,641	15,938	38,235	1,832	2,031	2,041	2,057	9,991
38	1,729	5,463	10,563	16,683	55,967	1,586	2,029	2,043	2,060	27,489
39	2,350	4,983	8,311	14,138	42,122	2,019	2,029	2,041	2,060	13,631
40	2,677	5,098	7,894	12,452	48,542	2,020	2,029	2,036	2,048	21,304
41	2,104	4,853	7,544	12,402	46,557	1,916	2,029	2,039	2,056	18,073
42	2,018	3,602	7,156	13,905	41,197	0,513	0,525	0,534	0,550	12,714
43	1,654	3,063	4,928	7,770	36,698	0,514	0,522	0,529	0,537	8,601
44	1,293	2,907	3,977	6,102	25,972	0,511	0,521	0,528	0,538	6,076
45	1,236	2,249	3,242	5,032	19,131	0,511	0,521	0,526	0,545	1,468
46	0,962	1,779	2,595	3,735	14,712	0,513	0,519	0,523	0,547	1,483
47	0,762	1,466	2,258	3,082	7,371	0,509	0,517	0,521	0,719	1,446
48	0,813	1,403	1,865	2,347	7,736	0,507	0,514	0,519	0,801	1,472
49	1,041	1,640	1,750	1,903	8,091	0,505	0,511	0,514	0,520	1,508
50	0,947	1,636	1,756	1,915	6,880	0,504	0,510	0,514	0,517	1,496
51	0,854	1,628	1,762	1,928	5,550	0,504	0,510	0,513	0,516	1,471
52	0,770	1,614	1,751	1,869	3,538	0,504	0,510	0,512	0,514	1,494

Vedlegg 3 - Tabell 3 Karakteristiske ukesvannføringer. Rett nedstrøms samløp med Bjellåga, punkt 3 (1967-2011) i m³/s.

Uke	Før tiltak					Etter tiltak				
	0-persentil	25-Persentil	50-Persentil	75-Persentil	100-Persentil	0-persentil	25-Persentil	50-Persentil	75-Persentil	100-Persentil
1	2,100	4,031	5,095	6,592	18,174	1,679	3,717	4,324	5,088	13,627
2	2,029	3,735	4,750	6,220	64,885	2,029	3,565	4,264	4,888	49,320
3	2,039	3,665	4,768	6,591	45,882	2,039	3,513	4,211	4,832	31,698
4	1,947	3,494	4,611	6,322	24,211	1,947	3,310	4,063	4,925	18,395
5	1,827	3,111	4,492	6,569	24,426	1,827	2,980	3,910	5,000	12,266
6	1,856	2,825	4,316	6,007	16,821	1,856	2,819	3,719	4,883	8,124
7	1,792	3,238	4,231	6,392	20,516	1,792	2,870	3,707	4,746	12,024
8	1,734	3,166	4,342	5,917	18,873	1,734	2,868	3,679	4,565	15,817
9	1,317	2,869	3,707	4,699	17,231	1,247	2,765	3,364	4,115	14,881
10	0,796	2,572	3,025	3,453	5,818	0,790	2,389	2,957	3,371	5,818
11	0,807	2,558	2,972	3,470	8,202	0,773	2,456	2,829	3,251	6,999
12	0,714	2,425	2,899	3,482	8,963	0,714	2,372	2,727	3,256	8,963
13	0,644	2,307	2,771	3,531	8,427	0,644	2,223	2,700	3,310	8,427
14	0,128	1,742	2,233	2,729	10,067	0,128	1,742	2,233	2,729	10,067
15	0,147	1,855	2,229	2,678	10,573	0,147	1,855	2,229	2,678	10,288
16	0,143	2,095	2,512	3,603	25,197	0,143	2,095	2,498	3,555	24,471
17	0,141	2,310	3,290	6,795	31,449	0,141	2,310	3,255	6,697	30,040
18	1,409	3,335	6,417	19,204	74,603	1,409	3,312	5,184	11,450	50,186
19	1,703	7,219	15,568	39,646	148,556	1,703	5,606	9,540	21,276	120,056
20	4,877	15,430	31,999	62,353	158,732	4,369	9,222	15,240	37,043	130,232
21	7,418	26,961	54,745	106,095	211,576	5,607	14,163	30,022	77,595	183,076
22	13,220	47,916	77,393	112,352	323,682	9,028	24,472	48,893	83,852	295,182
23	31,133	60,164	92,140	136,722	289,959	17,207	34,174	65,410	108,222	261,459
24	24,093	75,446	100,208	137,866	304,406	16,107	46,946	71,708	109,417	275,906
25	23,548	80,057	113,109	146,771	246,475	15,995	51,557	84,721	118,271	217,975
26	33,107	73,716	92,978	125,943	260,465	20,788	45,942	64,513	97,443	231,965
27	22,439	58,302	74,288	108,886	228,338	16,293	35,374	47,061	80,386	199,838
28	16,150	46,812	62,692	87,995	240,234	13,743	27,824	39,526	59,495	211,734
29	10,460	34,461	46,393	69,867	159,387	10,460	21,317	28,401	43,520	130,887
30	9,897	28,415	38,547	56,493	137,734	9,474	19,102	24,191	34,134	109,234
31	11,106	22,974	30,437	40,852	95,481	9,450	15,816	19,949	25,501	66,981
32	10,355	18,353	24,898	33,447	78,671	8,987	13,264	17,281	21,196	51,258
33	8,871	15,640	20,945	28,494	81,533	7,813	11,556	14,976	18,181	53,815
34	9,263	15,945	21,215	27,116	64,588	7,999	12,113	14,886	17,858	42,311
35	8,639	15,769	20,271	26,272	54,682	8,260	11,587	13,911	16,852	31,659
36	7,659	16,999	22,188	32,118	80,227	7,659	11,540	13,904	18,583	52,093
37	7,782	16,772	23,523	32,387	72,180	7,782	11,349	14,324	19,069	45,662
38	7,699	14,424	23,211	32,571	90,112	7,345	10,423	14,480	19,482	61,612
39	8,314	13,568	20,217	29,565	76,993	7,826	10,496	13,780	18,379	52,770
40	9,259	14,583	19,364	27,648	76,962	8,283	10,885	13,078	16,515	50,880
41	8,281	13,818	18,753	27,296	70,536	8,049	10,678	13,053	16,869	42,530
42	6,525	11,514	18,247	30,007	68,393	4,714	8,289	11,067	16,086	41,439
43	6,170	10,108	14,181	19,803	69,368	4,760	7,285	9,491	12,239	43,508
44	4,901	9,757	12,465	16,634	50,701	3,945	6,808	8,850	10,905	32,681
45	3,996	8,277	10,708	15,163	55,702	3,667	5,948	7,886	9,887	39,634
46	3,216	6,972	8,835	11,696	51,447	3,216	5,533	6,677	8,160	40,480
47	2,663	6,113	7,558	9,822	21,842	2,663	5,221	5,919	6,964	17,722
48	2,646	5,729	6,598	8,137	27,206	2,298	4,773	5,470	6,310	20,213
49	3,224	5,332	6,127	7,268	21,922	1,995	4,030	4,882	6,112	16,909
50	3,130	5,173	6,081	6,969	11,259	1,875	3,728	4,760	5,816	8,895
51	3,028	4,897	5,929	6,689	12,761	1,796	3,656	4,461	5,402	10,267
52	2,923	4,656	5,323	5,964	10,800	1,730	3,436	4,074	4,745	9,036

Vedlegg 3 - Tabell 4 Karakteristiske ukesvannføringer. Rett oppstrøms utløp av Hjartås kraftverk, Alt. B., Punkt 4 (1967-2011) i m³/s.

Uke	Før tiltak					Etter tiltak				
	0-persentil	25-Persentil	50-Persentil	75-Persentil	100-Persentil	0-persentil	25-Persentil	50-Persentil	75-Persentil	100-Persentil
1	2,104	4,039	5,106	6,605	18,213	1,681	3,726	4,333	5,101	13,666
2	2,032	3,743	4,759	6,232	65,030	2,032	3,573	4,272	4,901	49,466
3	2,043	3,673	4,779	6,603	45,975	2,043	3,520	4,220	4,845	31,791
4	1,950	3,501	4,621	6,335	24,265	1,950	3,316	4,072	4,937	18,449
5	1,830	3,116	4,501	6,582	24,455	1,830	2,986	3,920	5,013	12,301
6	1,860	2,830	4,326	6,018	16,834	1,860	2,825	3,729	4,895	8,146
7	1,796	3,244	4,240	6,406	20,541	1,796	2,877	3,715	4,759	12,057
8	1,738	3,173	4,350	5,928	18,910	1,738	2,874	3,688	4,576	15,863
9	1,319	2,875	3,715	4,709	17,273	1,249	2,771	3,372	4,125	14,923
10	0,796	2,577	3,032	3,460	5,833	0,791	2,394	2,963	3,379	5,833
11	0,807	2,564	2,978	3,478	8,215	0,773	2,462	2,835	3,258	7,019
12	0,714	2,430	2,906	3,489	8,990	0,714	2,376	2,732	3,263	8,990
13	0,644	2,312	2,777	3,537	8,452	0,644	2,228	2,706	3,318	8,452
14	0,128	1,746	2,240	2,736	10,095	0,128	1,746	2,240	2,736	10,095
15	0,147	1,860	2,235	2,684	10,602	0,147	1,860	2,235	2,684	10,317
16	0,143	2,101	2,518	3,612	25,269	0,143	2,101	2,505	3,564	24,542
17	0,141	2,316	3,298	6,815	31,537	0,141	2,316	3,263	6,716	30,127
18	1,413	3,343	6,431	19,233	74,699	1,413	3,321	5,196	11,478	50,282
19	1,708	7,234	15,598	39,697	148,767	1,708	5,621	9,565	21,333	120,267
20	4,889	15,457	32,047	62,439	158,857	4,380	9,246	15,280	37,136	130,357
21	7,432	27,001	54,821	106,227	211,861	5,621	14,202	30,093	77,727	183,361
22	13,244	47,979	77,498	112,512	324,193	9,052	24,542	48,998	84,012	295,693
23	31,185	60,257	92,275	136,920	290,393	17,255	34,268	65,548	108,420	261,893
24	24,138	75,554	100,352	138,091	304,859	16,152	47,054	71,852	109,643	276,359
25	23,592	80,178	113,279	146,984	246,854	16,040	51,678	84,893	118,484	218,354
26	33,172	73,834	93,127	126,141	260,852	20,846	46,058	64,661	97,641	232,352
27	22,483	58,402	74,410	109,068	228,738	16,337	35,475	47,179	80,568	200,238
28	16,188	46,891	62,804	88,138	240,644	13,780	27,903	39,637	59,638	212,144
29	10,489	34,518	46,472	69,983	159,646	10,489	21,376	28,481	43,643	131,146
30	9,922	28,464	38,614	56,592	137,943	9,500	19,155	24,259	34,231	109,443
31	11,129	23,017	30,490	40,920	95,631	9,473	15,858	20,003	25,572	67,131
32	10,376	18,386	24,944	33,503	78,806	9,008	13,298	17,327	21,253	51,392
33	8,889	15,670	20,984	28,541	81,673	7,831	11,584	15,015	18,229	53,955
34	9,283	15,976	21,254	27,160	64,698	8,017	12,143	14,924	17,905	42,420
35	8,657	15,799	20,309	26,315	54,768	8,278	11,616	13,947	16,896	31,747
36	7,676	17,029	22,228	32,170	80,337	7,676	11,568	13,939	18,633	52,202
37	7,799	16,800	23,560	32,438	72,286	7,799	11,377	14,360	19,120	45,770
38	7,717	14,450	23,243	32,613	90,215	7,362	10,447	14,517	19,531	61,715
39	8,331	13,594	20,253	29,612	77,131	7,842	10,521	13,815	18,428	52,907
40	9,279	14,612	19,397	27,691	77,049	8,301	10,911	13,111	16,558	50,968
41	8,299	13,843	18,786	27,346	70,609	8,067	10,703	13,086	16,913	42,611
42	6,537	11,537	18,280	30,053	68,480	4,726	8,313	11,099	16,132	41,527
43	6,183	10,129	14,208	19,842	69,465	4,772	7,305	9,518	12,274	43,613
44	4,911	9,777	12,492	16,666	50,785	3,955	6,826	8,875	10,936	32,769
45	4,004	8,293	10,730	15,192	55,813	3,676	5,964	7,908	9,915	39,750
46	3,223	6,987	8,853	11,720	51,565	3,223	5,548	6,695	8,183	40,599
47	2,669	6,126	7,573	9,841	21,889	2,669	5,234	5,934	6,982	17,773
48	2,651	5,742	6,612	8,154	27,264	2,303	4,785	5,484	6,327	20,271
49	3,228	5,342	6,140	7,285	21,966	1,999	4,040	4,895	6,128	16,958
50	3,135	5,183	6,094	6,984	11,276	1,879	3,737	4,772	5,832	8,918
51	3,031	4,907	5,941	6,703	12,787	1,800	3,665	4,473	5,417	10,295
52	2,926	4,665	5,333	5,977	10,825	1,734	3,444	4,084	4,757	9,061