

PUKAKI FLATS STAGING PLAN OPTIONS										
					DISCHARGE / ha		TOTAL DISCHARGE		TOTAL DISCHARGE (with dryland)	
Land Use	Abbr.	Area ID	Soil	Area ha	N (HD) kg /ha/yr	P kg /ha/yr	N (HD) kg N /yr	P kg P /yr	N (HD) kg N /yr	P kg P /yr
DRYLAND LOSSES:										
Simons Pass				3472	3.7	0.1	12761	218		
Simons Hill				2776	2.5	0.1	6951	259		
				6248			19712	477		
IRRIGATED LOSSES:										
OPTION 1: Original Proposal: Immediate conversion of 4022 ha to DOFF										
Dairy (Winter off)										
Simons Pass	DOFF	SPS_1A	PAW90/130	1307	20	0.6	26140	784	56541	1492
	DOFF	SPS_1B	PAW 30/60	980	18	0.5	17640	490		
Simons Hill	DOFF	SHS_3	PAW 30/60	1735	18	0.5	31230	868	38181	1127
Total Dryland (incl Mburn)										
Total:				4022			75010	2142	94722	2619
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									37861	8339
OPTION 2: Original Proposal: Immediate conversion of 4022 ha to SBFIN										
Sheep & Beef										
Simons Pass	SBFIN	SPS_1A	PAW90/130	1307	13	0.5	16991	654	41512	1264
	SBFIN	SPS_1B	PAW 30/60	980	12	0.4	11760	392		
Simons Hill	SBFIN	SHS_3	PAW 30/60	1735	12	0.4	20820	694	27771	953
Total Dryland (incl Mburn)										
Total:				2715			32580	1086	27771	953
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									104812	10005
OPTION 3: Original Proposal: Immediate conversion of 4022 ha to SBIFIN										
Intensive Sheep & Beef										
Simons Pass	SBIFIN	SPS_1A	PAW90/130	1307	14	0.2	18298	261	43799	675
	SBIFIN	SPS_1B	PAW 30/60	980	13	0.2	12740	196		

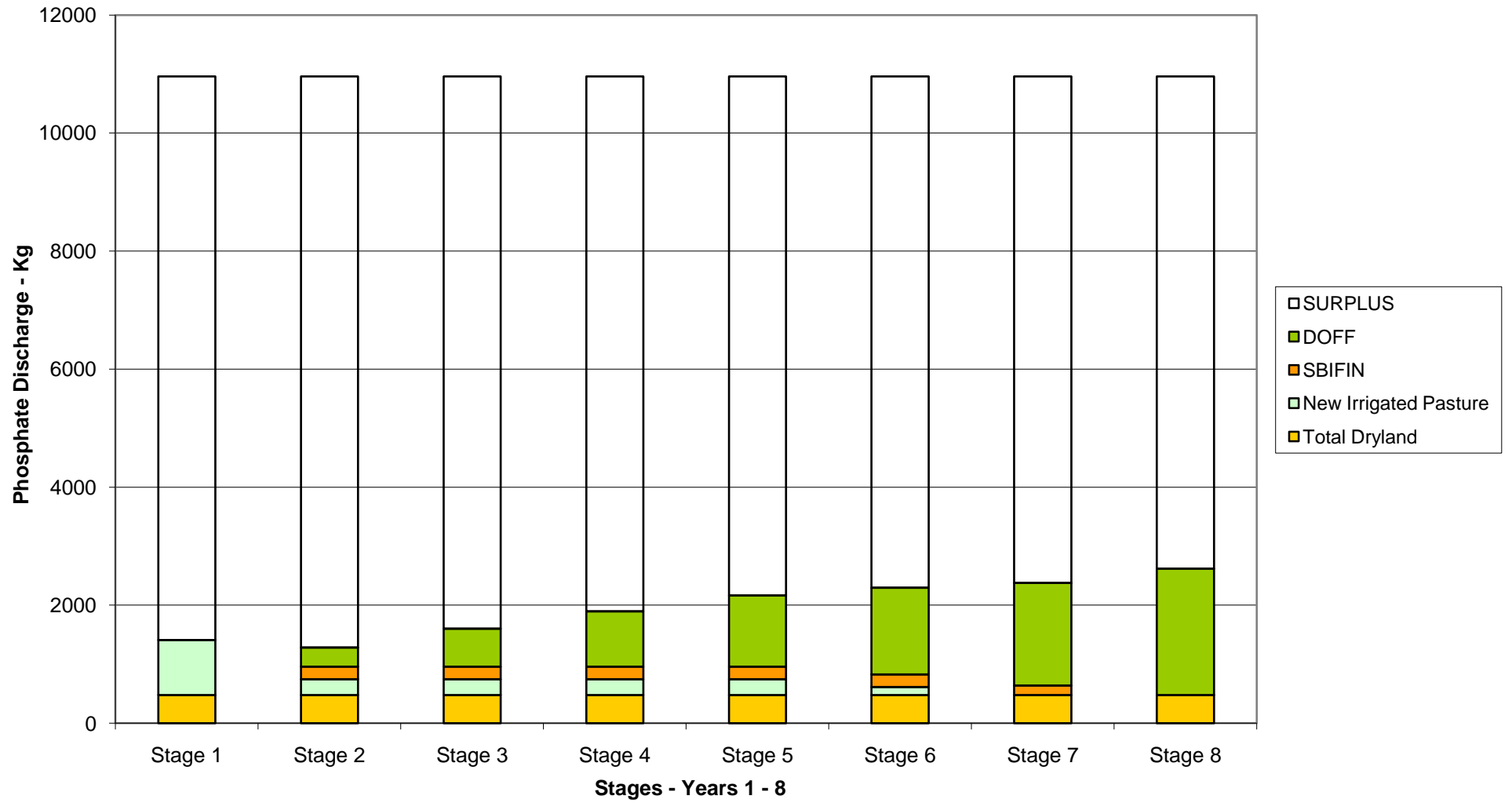
Simons Hill	SBIFIN	SHS_3	PAW 30/60	1735	13	0.2	22555	347	29506	606
Total Dryland (incl Mburn)										
Total:				4022			53593	804	73305	1281
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									59278	9677
OPTION 4: Stage 1: Year 1										
Stage 1: First Year Construct and irrigate 1608 ha new pivots; No stock										
	DOFF		PAW90/130		20	0.6	0	0		
			PAW 30/60		18	0.5	0	0		
	SBIFIN		PAW90/130		14	0.2	0	0		
			PAW 30/60		13	0.2	0	0		
	Irrigated Pasture		PAW90/130	1307	9	0.6	11763	784		
			PAW 30/60	301	11	0.5	3311	151		
Total Dryland (incl Mburn)										
Total:				1608			15074	935	34786	1412
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									97797	9546
OPTION 4: Stage 2: Year 2										
Stage 2: Second Year Construct and irrigate 536 ha new pivots; 1072 ha SBIFIN; 536 ha DOFF										
	DOFF		PAW90/130	536	20	0.6	10720	322		
			PAW 30/60		18	0.5	0	0		
	SBIFIN		PAW90/130	771	14	0.2	10794	154		
			PAW 30/60	301	13	0.2	3913	60		
	Irrigated Pasture		PAW90/130		9	0.6	0	0		
			PAW 30/60	536	11	0.5	5896	268		
Total Dryland (incl Mburn)										
Total:				2144			31323	804	51035	1281
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									81548	9677
OPTION 4: Stage 3: Year 3										

Stage 2: Third Year:	Construct and irrigate 536 ha new pivots; 1072 ha SBIFIN; 1072 ha DOFF									
	DOFF		PAW90/130	1072	20	0.6	21440	643		
			PAW 30/60		18	0.5	0	0		
	SBIFIN		PAW90/130	235	14	0.2	3290	47		
			PAW 30/60	837	13	0.2	10881	167		
	Irrigated Pasture		PAW90/130		9	0.6	0	0		
			PAW 30/60	536	11	0.5	5896	268		
Total Dryland (incl Mburn)									19712	477
Total:				2680			41507	1126	61219	1603
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									71364	9355
OPTION 4: Stage 4: Year 4										
Stage 3: Fourth Year	Construct and irrigate 536 ha new pivots; 1072 ha SBIFIN; 1608 ha DOFF									
	DOFF		PAW90/130	1307	20	0.6	26140	784		
			PAW 30/60	301	18	0.5	5418	151		
	SBIFIN		PAW90/130		14	0.2	0	0		
			PAW 30/60	1072	13	0.2	13936	214		
	Irrigated Pasture		PAW90/130		9	0.6	0	0		
			PAW 30/60	536	11	0.5	5896	268		
Total Dryland (incl Mburn)									19712	477
Total:				3216			51390	1417	71102	1894
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									61481	9064
OPTION 4: Stage 5: Year 5										
Stage 4: Fifth Year	Construct and irrigate 536 ha new pivots; 1072 ha SBIFIN; 2144 ha DOFF									
	DOFF		PAW90/130	1307	20	0.6	26140	784		
			PAW 30/60	837	18	0.5	15066	419		
	SBIFIN		PAW90/130		14	0.2	0	0		
			PAW 30/60	1072	13	0.2	13936	214		
	Irrigated Pasture		PAW90/130		9	0.6	0	0		
			PAW 30/60	536	11	0.5	5896	268		

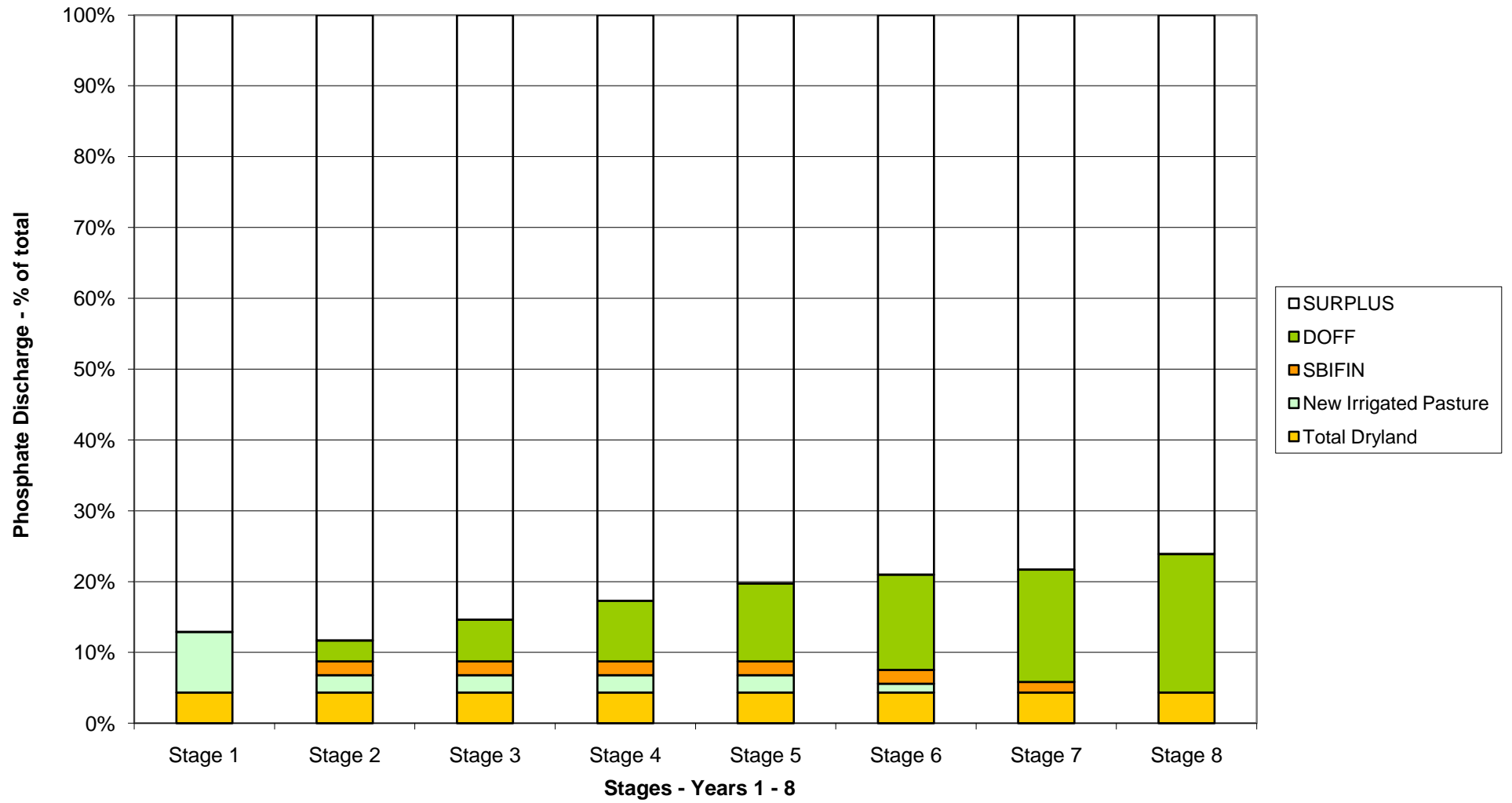
Total Dryland (incl Mburn)									19712	477
Total:			3752			61038	1685		80750	2162
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									51833	8796
OPTION 4: Stage 6: Year 6										
Stage 5: Sixth Year	Construct and irrigate 268 ha new pivots; 1072 ha SBIFIN; 2680 ha DOFF									
	DOFF		PAW90/130	1307	20	0.6	26140	784		
			PAW 30/60	1373	18	0.5	24714	687		
	SBIFIN		PAW90/130		14	0.2	0	0		
			PAW 30/60	1072	13	0.2	13936	214		
	Irrigated Pasture		PAW90/130		9	0.6	0	0		
			PAW 30/60	270	11	0.5	2970	135		
Total Dryland (incl Mburn)									19712	477
Total:			4022				67760	1820	87472	2297
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									45111	8661
OPTION 4: Stage 7: Year 7										
Stage 6: Seventh Year	Construct and irrigate NIL ha new pivots; 804 ha SBIFIN; 3216 ha DOFF									
	DOFF		PAW90/130	1307	20	0.6	26140	784		
			PAW 30/60	1909	18	0.5	34362	955		
	SBIFIN		PAW90/130		14	0.2	0	0		
			PAW 30/60	806	13	0.2	10478	161		
	Irrigated Pasture		PAW90/130		9	0.6	0	0		
			PAW 30/60		11	0.5	0	0		
Total Dryland (incl Mburn)									19712	477
Total:			4022				70980	1900	90692	2377
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									41891	8581
OPTION 4: Stage 8: Year 8										
Stage 7: Eighth Year	Construct and irrigate NIL ha new pivots; NIL ha SBIFIN; 4022 ha DOFF									

	DOFF		PAW90/130	1307	20	0.6	26140	784		
			PAW 30/60	2715	18	0.5	48870	1358		
	SBIFIN		PAW90/130		14	0.2	0	0		
			PAW 30/60		13	0.2	0	0		
	Irrigated Pasture		PAW90/130		9	0.6	0	0		
			PAW 30/60		11	0.5	0	0		
Total Dryland (incl Mburn)									19712	477
Total:				4022			75010	2142	94722	2619
Pukaki Flats Nutrient Allocation:									132583	10958
Surplus on Pukaki Flats (after subcatchment reallocation):									37861	8339

PUKAKI FLATS STAGED DEVELOPMENT - PHOSPHATE DISCHARGE



PUKAKI FLATS STAGED DEVELOPMENT - PHOSPHATE DISCHARGE (%)



**OPTION 4
PHOSPHATE**

	Total Dryland	New Irrigated Pasture	SBIFIN	DOFF	SURPLUS	TOTAL
Stage 1	477	935	0	0	9546	1412
Stage 2	477	268	214	322	9677	1281
Stage 3	477	268	214	643	9356	1602
Stage 4	477	268	214	935	9064	1894
Stage 5	477	268	214	1203	8796	2162
Stage 6	477	135	214	1471	8661	2297
Stage 7	477	0	161	1739	8581	2377
Stage 8	477	0	0	2142	8339	2619

Pukaki Flats
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