

Appliance cascade plan

Introduction

Plan subject to change

This cascade plan is subject to change based on fleet operational requirements including:

- Avoiding expensive repairs on older appliances
- accommodating peaks in demand for relief or training appliances,
- changes in the approved fleet allocation.

Timings are also indicative and subject to change.

Generally, appliances cascading to stations a long distance away (e.g. inter-island) or requiring more changes to fit out (e.g. 464 ladder changes) will take longer than those that are going to a station a short distance away with little or no changes to fit out.

For any queries regarding this plan, please contact your Region Fleet Co-ordinator or the National Manager Fleet.

Appliance cascade plan

The appliance cascade plan and schedule resulting from upcoming new appliance deliveries is:

New appliances				Cascading appliances							
Type	Build #	Delivery month	Station	New appliance delivery date + one month		New appliance delivery date + two months		New appliance delivery date + three months		New appliance delivery date + four months	
				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
1	183	Sep-22	Inglewood 641	2011 Iveco Eurocargo FRD223	Trentham 481	1998 Scania 94DB XB5160	Levin 347	Additional Training appliance Te Upoko TRTEUPO732	None		
1	184	Oct-22	Picton 301	2011 Iveco Eurocargo FUM16	Luggate 831	1999 Mitsubishi FK195 XI8421	Orepuki 351	1984 Hino FF173K LP4130	Dispose		
1	185	Nov-22	Weston 731	2011 Iveco Eurocargo FYB278	Mosgiel 312	1991 Ford Cargo 1218 RE1745	Dispose				
1	186	Feb-23	Leigh 941	2000 Mitsubishi FK195 ZB7378	Orere Point 4571	1997 Mitsubishi FK160 WS633	Dispose				
1	187	Mar-23	Milton 531	2011 Iveco Eurocargo GCC544	Reefton 681	1989 Hino FD162LA OA3915	Dispose				
1	188	Oct-23	Bulls 821	2011 Iveco Eurocargo FSN207	Seaview 422	1994 Mitsubishi FP270 SO7757	TBD				

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1	189	Oct-23	Ohakune 751	2011 Iveco Eurocargo FUL986	National Park	2009 Iveco Eurocargo FAN577	Greytown 642	1992 Hino FD162LA RN9887	Dispose		
1	190	Nov-23	Portobello 291	2011 Iveco Eurocargo FUL948	Waimangaroa 821	1997 Mitsubishi FK160 WO4373	Franz Josef 741	1989 International 1850D NZ5617	Dispose		
1	191	Nov-23	Kaeo 661	2011 Iveco Eurocargo GBC630	AREA1503	1990 Hino FD162LA PB2076	Dispose				
1	192	Dec-23	Patumahoe 561	2011 Iveco Eurocargo FUL961	Greenhithe 841	2006 Iveco Eurocargo DKD360	Matawai 847	1989 Hino FH222 NU8348	Dispose		
1	193	Dec-23	Whatatane 921	2012 Iveco Eurocargo GMQ444	Matata 941	1994 Mitsubishi FK160 SH9829	Dispose				
1	194	Jan-24	Mataura 451	2012 Iveco Eurocargo GLB618	Takaka 391	1999 Mitsubishi FK195 XI8436	Scargill 9271	1986 Hino NB374	Dispose		
1	195	Jan-24	Warkworth 931	2012 Iveco Eurocargo GMQ497	Benneydale 481	1993 Mitsubishi FK160 SL8448	Dispose				
1	196	Feb-24	Okaihau 691	2012 Iveco Eurocargo GEH192	Rawene 701	2000 Mitsubishi	Waimana 9871	1987 Hino FD162LA NU3414	Dispose		

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						FK195 ZA5828					
1	197	Feb-24	Clevedon 461	2012 Iveco Eurocargo GHL346	Tokomaru Bay 921	1998 Mitsubishi FK195 XB5946	Whakatutu 861	1987 Hino FD162LA OP5269	Dispose		
1	198	Mar-24	Dannevirke 671	2012 Iveco Eurocargo GJT766	Takapau 611	1999 Mitsubishi FK195 XD3574	Ongaonga 641	1988 Hino FD162LA NZ7561	Dispose		
1	199	Apr-24	Waiuku 571	2013 Iveco Eurocargo GZH83	Okato 651	1999 Mitsubishi FK195 XI8435	Manapouri 741	1988 Hino FD162LA NM5135	Dispose		
2	124	Aug-22	Oneroa 407	2014 Iveco Eurocargo HLF492	Beachlands 437	2009 Iveco Eurocargo HPF761	Takaka 397	1997 Scania P94DB WN9540	Region 2 Rotorua Relief REGN207	1992 Scania G93M RG7983	TBD
2	125	Sep-22	Kirwee 727	2014 Iveco Eurocargo ML120 HPG168	Kaikoura 757	2009 Iveco Eurocargo ESH933	Hanmer Springs 677	1996 Scania P93ML UI3936	TBD		
2	126	Feb-23	Pahiatua 457	2012 Iveco Eurocargo GGB836	AREA1602	2009 Iveco Eurocargo EWJ478	AREA1302 Relief	1992 Ford Cargo 1218 RA9394	Dispose		
2	127	Mar-23	Helensville 897	2013 Iveco Eurocargo HAT609	Mangonui 737	2009 Iveco Eurocargo ETP575	SOUT510	1987 Hino FF173 MM8619	Dispose		

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2	128	Oct-23	Wanaka 857	2012 Iveco Eurocargo GLB617	SOUT406	2009 Iveco Eurocargo EWJ428	SOUT404 Relief	1992 Ford Cargo 1218 RH3122	Dispose		
2	129	May-23	Marton 817	2013 Iveco Eurocargo GPY66	Lyttelton 291	2009 Iveco Eurocargo EYZ808	AREA2201	1987 Mitsubishi FP418 NM9426	Dispose		
2	130	Oct-23	Katikati 767	2012 Iveco Eurocargo GJT772	Ngatea 527	2007 Iveco Eurocargo DZB964	Culverden 667	1991 Dennis SS - 1991 ATU559	Dispose		
2	131	Oct-23	Tirau 857	2013 Iveco Eurocargo HBZ704	Coromandel 577	2008 Iveco Eurocargo EFU60	Lumsden 547	1993 Mitsubishi FP270 SD1191	Dispose		
2	132	Oct-23	Turangi 237	2014 Iveco Eurocargo HMQ80	Mangakino 887	2007 Iveco Eurocargo DSD220	Fox Glacier 727	1995 Dennis Sabre - 1995 EFB610	Dispose		
Medium crew cab 4x4	38	May-22	Kaiaua 4271	1993 Mitsubishi FK160 CQT826	Dispose						
Medium crew cab 4x4	39	May-22	Mahia 9771	2018 Isuzu NPS450 LLP119	Remutaka 4971	1994 Mitsubishi Canter AUZ458	Dispose				
Medium crew cab 4x4	40	Feb-23	Minginui 5971	1983 Isuzu JCS KR6781	Dispose						

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Medium crew cab 4x4	41	Feb-23	Whanganui 7171 Whanganui 7172	2001 Mitsubishi Canter XU4834 2003 Isuzu NPS450 BLP665	Dispose Papatowai 9771						
Medium crew cab 4x4	42	Mar-23	Houhora 5471	2015 Isuzu FTS800	Tinopai 8871	2003 Isuzu NPS BGD639	Hicks Bay 9075	1984 Isuzu JCS420 LX6476	Dispose		
Medium crew cab 4x4	43	Mar-23	Darfield 692	2010 Iveco Eurocargo FFF431 1986 Hino GT NO185	Hanmer Springs 671 Dispose	1996 Mitsubishi FK160 UH5120	Arthur's Pass 9671	1997 Toyota Dyna CLL639	Dispose		
Medium crew cab 4x4	44	Oct-23	Paparoa 8171	2020 Isuzu FSS550 4x4 Crew Cab NCZ87	Shelley Beach 8871	1994 Mitsubishi FK160 SX5862	Dispose				
Medium crew cab 4x4	46	Oct-23	Onewhero 5271	1997 Mitsubishi JTF131	Hinds 9371	1987 Hino FD162LA NP6874	Dispose				
Medium crew cab 4x4	47	Oct-23	Southern Lake Taupo 3071	1991 Mercedes CDR289	Matakana Island 7071	1984 Isuzu JCS LQ1324	Dispose				
Medium crew cab 4x4	48	Oct-23	Lauriston 8871	2018 Isuzu FSS550 4x4	Athol 9171	2009 Isuzu NPS400 4x4 EWR642	Rai Valley 2371	1996 Isuzu F Series FTS600 HEG257	Tokomaru Bay 9275	1985 Hino F1175 MJ5359	Dispose

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				Crew Cab MGQ375							
Medium crew cab 4x4	49	Oct-23	West Melton 9571	2011 Isuzu GBU828	Kokatahi 911	1991 HINO FH DZA282	Dispose				
Medium crew cab 4x4	50	Oct-23	Swannanoa 1771	2020 Isuzu FSS550 4x4 Crew Cab MTE639	Sefton 3971	1986 Hino GT NO185	Dispose				
Medium crew cab 4x4	51	Oct-23	Oxford 792	2020 Isuzu FPS550 4x4 Crew Cab NBP156	Wakefield 341	1993 Mitsubishi FK160 RU6112	Return to relief fleet				
Medium crew cab 4x4	52	Nov-23	Kakanui 9171	2020 Isuzu FPS550 4x4 Crew Cab NBP160	Millers Flat 4371	2006 Isuzu NPS400 4x4 DJR303	Pines Beach 1971	1986 Hino GT1118 NX893	Dispose		
Medium crew cab 4x4	53	Nov-23	Springfield 7411	2020 Isuzu FSS550 4x4 Crew Cab NCZ88	Dunstan 6771	2010 Isuzu NPS300 4x4 FJP714	Little Wanganui 811	1995 Mitsubishi FK160 TN4182	Dispose		
Medium crew cab 4x4	54	Nov-23	Hira 5571	2020 Isuzu FSS550 4x4 Crew Cab MTE638	Kohi 7371	2001 Isuzu N Series 100P ADE359	Karekare 7371	1993 Daihatsu Delta RY4113	Dispose		

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Medium crew cab 4x4	55	Dec-23	Chartwell 4271	1993 Mitsubishi FK160 SJ4178	Dispose						
Medium crew cab 4x4	56	Dec-23	Heretaunga 5071	2020 Isuzu FSS550 4x4 Crew Cab NBP159	Elsthorpe 7971 Elsthorpe 7925	2012 Isuzu NPS300 GJF645 2018 Toyota Hilux LKP127	Te Pohue 7371	2001 Mazda Bounty QAJW403 and trailer	Dispose		
Medium tanker	33	Jan-22	Temuka 8611	2003 Hino BGJ894	Middlemarch 3811	1994 Isuzu FTS600 FDK770	Wyndham 4211	1984 Isuzu JCS420 1984 MA1978	Dispose		
Medium tanker	35	Aug-22	Amberley 4811	1986 Mitsubishi FV415 MT5618	Dispose						
Medium tanker	36	Sep-22	New Plymouth 6111	2002 Scania P114 JLB35	Dispose						
Medium tanker	37	Dec-22	Tokoroa 8711	1988 Ford N1418 UN2827	Hanmer 1375	1984 Isuzu JCS420 LT2608	Dispose				
Medium tanker	38	Dec-22	Patutahi 8375	1991 Hino YG4310	Darfield 9515	1985 Hino GS224 MI118	Dispose				
Medium tanker	39	Feb-23	Ruatoria 8875	1988 Isuzu FVR XA7040	Dispose						
Medium tanker	40	Mar-23	Stratford 4811	2003 Volvo FM12 BLA927	Dispose						

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Medium tanker	41	Mar-23	Hawera 5511	2000 Volvo FM12 ZH3719	Dispose						
Medium tanker	42	Nov-23	Clevedon 462	1993 Mitsubishi FK160 SL8449	Dispose						
Medium tanker	43	May-23	Marton 8111	2003 Isuzu ECS766	Waikaia 4611	1981 International KE7626	Dispose				
Medium tanker	44	Oct-23	Rarangi 5775	2013 Isuzu GYG964	Wairau Valley 2511	1995 Mitsubishi FUSO CGT402	Alford Forest 8611	1990 Isuzu CXG XU9151	Dispose		
Medium tanker	45	Oct-23	Pirongia 5876	1994 Hino GT118 AET558	Dispose						
Medium tanker	46	Oct-23	Leeston 4311	1997 Hino Ranger ENQ658	Culverden 6611	1995 Isuzu DQU496	Omarama 5611	1985 Isuzu FVR123F MD4854	Dispose		
Medium tanker	47	Oct-23	Southbridge 4511	1998 Hino Ranger EMT607	Dipton 3911	1984 Isuzu JCS420 MA1977	Dispose				
Medium tanker	48	Oct-23	Waimate 8811	2006 Hino FG DLR785	Portobello 2911	1994 Mitsubishi Fuso BHB627	Dispose				
Medium tanker	49	Nov-23	Nelson 2111	2003 Isuzu BPU752	Naseby 8111	1984 Isuzu LI7450	Dispose				

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Medium tanker	50	Nov-23	Balclutha 4611	2008 Volvo FE280 JFH886	Lumsden 5411	1989 Ford N1418 RO982	Dispose				
Medium tanker	51	Nov-23	Papakura 3811	1997 Hino JHDFS1KL WE3436	Balfour 5511	1987 Mitsubishi SG7641	Dispose				
Medium tanker	52	Nov-23	Te Puke 7911	2017 Hino 500 MKU444	Waipara 6111	1988 Isuzu FTR NZ4021	Dispose				

Appendix

Policy

The [FL2-2 POP Fleet procurement and allocation policy](#):

- specifies the allocation of Types 1, 2 & 3 appliances to stations and the “Tier” of each appliance
- notes that the introduction of new appliances to the fleet results in older appliances being retired and a movement (“cascade”) of appliances between positions in each Tier
- notes that the National Manager Fleet determines the cascade schedule, and transfers appliances as required to achieve the allocation principles contained in the policy.

Cascade principles

The following principles are generally applied when producing the cascade plan:

Priority	Principle
1	Cascaded appliance to be the allocated Type.
2	Replace Type 1 appliances where the allocation is a Type 2 or 3.
3	Replace appliances that are outside the allocated Type or Tier age limit.
4	Replace problematic trucks (from a fleet maintenance / reliability point of view).
5	Replace the oldest trucks, but where age is similar more priority to be given to replacing the busiest trucks.

That is:

1. We will put the correct Type of appliance in unless there is a shortage of appliances of the required Type – if you’re supposed to have a Type 1, we’ll give you a Type 1.
2. We will prioritise replacing your appliance if you have a Type 1 and you’re supposed to have a Type 2 or 3 because your appliance is probably too small to carry the gear you’re supposed to have.
3. If you already have the correct Type of appliance and your appliance is already the correct age, i.e. no older than it’s supposed to be, then we will upgrade others in the Tier that don’t meet these criteria first.
4. If particular appliances or models of truck, e.g. Mitsubishi FP418s, are starting to become unreliable or require regular work to maintain CoF standard, e.g. due to rust, then we’ll prioritise getting rid of them.
5. We will prioritise replacing the oldest appliances starting with the busiest of those of the same age.

Having established which trucks are to be replaced, we then arrange the cascades within that group to minimise the fit-outs and transport distance required, e.g. minimise 464 ladder gantry swaps, try to cascade appliances fitted out as PRTs to other PRT slots, avoid ferry trips where possible.

Application to this plan

For the current cascade plan, the principles above have been applied as follows:

Type	Principles applied
1	In some cases, the Type 1 being replaced in Tier 2 is a similar age to those in Tier 3, and in those cases there are no further cascades to Tier 3. In some cases the Type 1 is replacing a Type 2, in which case the Type 2 cascades to a Type 2 station.
2	Priority will start to be given to replacing Ford Cargo appliances due to these appliances becoming more difficult to maintain.

Related information**Policy**

[FL2-2 POP Fleet procurement and allocation](#)

Document information

Owner	National Manager Fleet
Last reviewed	24 October 2023
Review period	Yearly

Record of amendments

Date	Brief description of amendment
24 October 2023	Swapped Kaeo and Patumahoe cascades to avoid requirement for LMR hardware changes.
October 2023	Updated cascade plan to reflect new appliance build programme
March 2022	Updated cascade plan
June 2021	Updated cascade plan for September 2021
September 2019	Updated cascade plan for June 2020.