

# 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.

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## 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	156	Dec-20	Turangi 231	2010 Iveco Eurocargo FPS447	Maramarua 4971	1991 Dennis SS - 1991 CNL517	Dispose				
1	157	Jan-21	Bay View 541	2010 Iveco Eurocargo FML420	Otane 571	1996 Mitsubishi FK160 UF8874	Dispose				
1	158	Jan-21	Hikurangi 641	2010 Iveco Eurocargo FML440	Kawhia 501	1996 Mitsubishi FK160 UD5257	Dispose				
1	159	Feb-21	Cromwell 421	2010 Iveco Eurocargo FPS471	Ross 771	1995 Mitsubishi FK160 TN4182	Dispose				
1	160	Mar-21	Kawakawa 741	2010 Iveco Eurocargo FML456	Tapu 561	1996 Mitsubishi FK160 TZ6627	Dispose				
1	161	Apr-21	Plimmerton 351	2010 Iveco Eurocargo FGY600	Rongotea 251	1996 Mitsubishi FK160 UL8155	Dispose				

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
1	162	May-21	Taradale 551	2013 Iveco Eurocargo HBZ704	Tirau 857	2009 Iveco Eurocargo FDH82	Methven 637	1991 Ford Cargo PP953	Dispose		
1	163	Jun-21	Havelock North 531	2014 Iveco Eurocargo HGH776	Balclutha 467	2009 Iveco Eurocargo ETP591	Invercargill 213	1989 Scania G93M OE1634	TBD		
1	164	Jul-21	Geraldine 841	2010 Iveco Eurocargo FRD249	Runanga 701	1996 Mitsubishi FK160 UL8156	Dispose				
1	165	Jul-21	Paeroa 511	2010 Iveco Eurocargo FRD245	Mamaku 841	1996 Mitsubishi FK160 TZ6628	Dispose				
1	166	Aug-21	Mangonui 731	2010 Iveco Eurocargo FJP149	Ngunguru 791	1997 Mitsubishi FK160 WM6776	Dispose				
1	167	Aug-21	Masterton 611	2010 Iveco Eurocargo FFF459	Te Hiku Region Training	N/A					
1	168	Aug-21	Brighton 331	2010 Iveco Eurocargo FPS482	Waipara 611	1997 Mitsubishi FK160 WU4970	Dispose				
1	169	Sep-21	Havelock North 532	2010 Iveco Eurocargo FKY472	Te Kopuru 131	1997 Mitsubishi	Dispose				

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
						FK160 WS633					
1	170	Nov-21	Ngongotaha 821	2008 Iveco Eurocargo ENA762	Murupara 891	N/A					
1	171	Jan-22	Huntly 321	2009 Iveco Eurocargo EYZ763	Lake Hawea 821	1998 Mitsubishi FK195 WW1986	Omaka 441	1986 Hino FF173 MM8671	Dispose		
1	172	Dec-21	Stratford 481	2011 Iveco Eurocargo FSN250	Bunnythorpe 231	1992 Ford Cargo 1218 RC2389	Dispose				
1	173	Jan-22	Omokoroa 771	2010 Iveco Eurocargo FGY572	Akaroa 467	1992 Dennis Rapier - 1992 AJM418	Dispose				
1	174	Jan-22	Kaiwaka 781	2011 Iveco Eurocargo FYB270	Beachlands 431	1998 Mitsubishi FK195 XA1171	Whiritoa 8671	1987 Hino FD162LA NQ8593	Dispose		
1	175	Feb-22	Hokitika 711	2011 Iveco Eurocargo ML120 FSN275	Murchison 381	1998 Mitsubishi FK195 XD3572	Tuatapere 721	1988 International 1850D NZ3156	Dispose		
1	176	Feb-22	Opotiki 961	2011 Iveco Eurocargo FUM5	Nuhaka 951	1998 Mitsubishi FK195 XB5946	Tokomaru Bay 921	1987 Hino FD162LA NN4902	Dispose		

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
1	177	May-22	Katikati 761	2011 Iveco Eurocargo FRD278	Eastbourne 461	2008 Iveco Eurocargo ERF427	Picton 307	1992 Dennis SS - 1992 CSZ264	Dispose		
1	178	May-22	Featherston 631	2011 Iveco Eurocargo GBC638	Featherston 632	2005 Iveco Eurocargo CWC471	Ohai 597	1992 Ford Cargo 1218 RD6795	Dispose		
1	179	Jun-22	Taumarunui 251	2011 Iveco Eurocargo FSN248	Rahotu 541	1990 Hino FD162LA OU337	Dispose				
1	180	Jun-22	Waimate 881	2011 Iveco Eurocargo ML120 FYB405	Akaroa 461	1997 Mitsubishi FK160 WL5095	Dispose				
1	181	Jul-22	Whangamata 651	2011 Iveco Eurocargo FSN239	Pauanui 641	1998 Mitsubishi FK195 XB1659	Whangapoua 8271	1986 Hino FF173 ND8384	Dispose		
1	182	Aug-22	Onerahi 201	2013 Iveco Eurocargo GZH97	Auckland Relief 419	2009 Iveco Eurocargo FDH114	Tikitiki 917	1989 Hino FH222 DTZ846	Dispose		
1	183	Sept-22	Inglewood 641	2011 Iveco Eurocargo FRD223	Additional Training appliance Region 3	N/A					
1	184	Oct-22	Picton 301	2011 Iveco Eurocargo ML120 FUM16	Luggate 831	1999 Mitsubishi FK195 XI8421	Orepuki 351	1984 Hino FF173K LP4130	Dispose		

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
1	185	Nov-22	Weston 731	2011 Iveco Eurocargo FYB278	Mosgiel 312	1991 Ford Cargo 1218 RE1745	Dispose				
2	104	Mar-22	Waihi 607	2015 Iveco Eurocargo JAA82	Huntly 327	2011 Iveco Eurocargo FYB406	Reefton 687	2001 Dennis Dagger BMD963	Harihari 751	1990 Hino FD162LA OX322	Dispose
2	105	Jul-20	Ashburton 627	2013 Iveco Eurocargo GTQ589	Palmerston 747	2006 Iveco Eurocargo DJD132	Lawrence 587	1982 International 1810C KR4569	None		
2	106	Aug-20	Whakatane 927	2013 Iveco Eurocargo GTQ636	Additional Training appliance Region 4	N/A	N/A				
2	107	Sep-20	Morrinsville 367	2013 Iveco Eurocargo GUZ89	Cromwell 427	2007 Iveco Eurocargo DWY508	Middlemarch 387	1987 Hino FF173 NB7004	None		
2	108	Oct-20	Stokes Valley 431	2013 Iveco Eurocargo GWW935	Area 15 Relief (Lockheed - Trentham)	1992 Ford Cargo 1218 RA9394	None				
2	109	Nov-20	Matamata 387	2013 Iveco Eurocargo GRQ320	Region 4 Training (Nelson)	1990 Hino FH222 PF8334	None				
2	110	Dec-20	Gore 437	2013 Iveco Eurocargo HAT643	Additional Training appliance Region 5	N/A	N/A				

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
2	111	Jan-21	Waiuku 577	2013 Iveco Eurocargo GTC572	Additional Training appliance Region 3	N/A	N/A				
2	112	Apr-21	Rolleston 427	2014 Iveco Eurocargo HMQ32	Kawakawa 747	2007 Iveco Eurocargo DZB946	Tokanui 317	1991 Ford Cargo 1218 PO3077	Dispose		
2	113	May-21	Tokoroa 877	2014 Iveco Eurocargo HTJ751	Raglan 391	2008 Iveco Eurocargo ESH907	Tologa Bay 877	1989 Hino FH222 OO1268	Dispose		
2	114	Jun-21	Paraparaumu 371	2001 Scania P94 FIREYZ	Papakura 381	1991 Scania G93M PU5080	TBD				
2	115	Jun-21	Queenstown 762	2014 Iveco Eurocargo HDG693	Twizel 907	2008 Iveco Eurocargo EHE573	Geraldine 847	1987 Mitsubishi FP418 NM9426	Dispose		
2	116	Jul-21	Feilding 287	2014 Iveco Eurocargo HKC945	Stratford 487	2006 Iveco Eurocargo DLH647	Opunake 537	1987 Mitsubishi FP418 NK5407	Dispose		
2	117	Aug-21	Otorohanga 467	2012 Iveco Eurocargo GJT772	Katikati 767	2008 Iveco Eurocargo ELP722	Fairlie 827	1986 Mitsubishi FP418 NJ5661	Dispose		
2	118	Aug-21	New Plymouth West 621	1990 Scania G93 PT2890	TBD						
2	119	Sep-21	Pokeno 507	2014 Iveco Eurocargo HKC960	Region 2 Relief REGN210	2008 Iveco Eurocargo EHE609	Hunterville 797	1992 Ford Cargo 1218 PT2900	Dispose		

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2	120	Sep-21	Warkworth 937	2014 Iveco Eurocargo HFK927	Wellsford 957	2008 Iveco Eurocargo EJZ582	Woodville 437	1988 Mitsubishi FP418 OB1780	Area 11 Relief (Taranua)	N/A	
2	121	Jan-22	Te Kuiti 477	2014 Iveco Eurocargo HMQ80	Turangi 237	2009 Iveco Eurocargo HPQ321	Owhango 277	1991 Ford Cargo 1218 PT2897	Dispose		
2	122	May-22	Kerikeri 677	2014 Iveco Eurocargo HPG196	Paihia 757	2009 Iveco Eurocargo EWJ465	Cheviot 657	1991 Ford Cargo 1218 PS4525	Dispose		
2	123	Jun-22	Tuakau 517	2014 Iveco Eurocargo RSQ517	Waitara 477	2010 Iveco Eurocargo FFF422	Tapanui 517	1991 Ford Cargo 1218 PX1035	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 REGN206	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		
Medium crew cab 4x4	16	Jul-20	Rangitikei 8371	2019 Isuzu NPS450 LUF219	Koitiata 9671	2018 Isuzu NPS450 LLP120	Te Horo 4671	2005 Isuzu CRC111	Darfield 9510	1984 Nissan Safari ZC3652	Dispose
Medium crew cab 4x4	17	Sep-20	Hira 5571	1986 Isuzu JCS BYM719	Dispose						
Medium crew cab 4x4	18	Sep-20	Ngatimoti 5375	1983 Isuzu JCS KR6746	Dispose						



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Medium crew cab 4x4	19	Oct-20	Alford Forest 8671	1984 Hino FF173 LW9699	Dispose						
Medium crew cab 4x4	20	Oct-20	Hurunui 0977	1984 Isuzu JCS Lt2653	Dispose						
Medium crew cab 4x4	21	Oct-20	Mayfield 9471	1984 Hino FF173 LP4134	Dispose						
Medium crew cab 4x4	22	Dec-20	Swannanoa 1771	1993 Mitsubishi FK160 SD5181	Dispose						
Medium crew cab 4x4	23	Apr-21	Cavalli 4871	1988 Mercedes DAA623	Dispose						
Medium crew cab 4x4	24	Dec-20	Pirongia 5871	1988 International 1850D OE9050	Dispose						
Medium crew cab 4x4	25	Mar-21	Brightwater 5071	1993 Mitsubishi FK160 SD5227	Dispose						
Medium crew cab 4x4	26	Jan-21	Heretaunga 5071	1996 Isuzu Forward FRS33 CKZ40	Waimarino 2271	1992 Hino FD162 RM4227	Dispose				
Medium crew cab 4x4	27	TBC	Wakari 9672	2011 Isuzu FTS800 GBZ821	Dispose						

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Medium crew cab 4x4	28	TBC	Oxford 792	1985 Isuzu JCB LX6520 1993 Mitsubishi FK160 SI7987	Dispose						
Medium crew cab 4x4	29	Feb-21	Kakanui 9171	1986 Hino FF173 MM8579	Dispose						
Medium crew cab 4x4	30	Feb-21	Springfield 7411	1987 Isuzu FTR NK6912	Dispose						
Medium crew cab 4x4	31	May-21	Paparoa 8171	1989 Hino FD162 OQ5024	Dispose						
Medium crew cab 4x4	32	May-21	Maungakaramea 2171	2009 Isuzu NPS400 EWR646	Maungakaramea 2172	1990 Hino FD162 PR9893	Dispose				
Medium crew cab 4x4	n/a	May-21	Manaia 6671	1992 Hino FD162 RH3129	Dispose						
Medium crew cab 4x4	33	Feb-22	Appleby 4875	1996 Isuzu FTS CBY762	Ranfurlly 7971	1986 Hino FF173 MM8567	Dispose				
Medium crew cab 4x4	34	Nov-21	Horowhenua 9771	1996 Isuzu FTS 600 HEG257	Canvastown 0275	2015 Isuzu	Dispose				

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
Medium crew cab 4x4	35	Nov-21	Te Akau 8771	2013 Isuzu NPS300 GTA934	Hicks Bay 9075	1984 Isuzu JCS420 LX6476	Dispose				
Medium crew cab 4x4	36	Feb-22	Lake Rotoiti 5175	2006 Isuzu NPS400 DSK243	Port Charles 6771	n/a					
Medium crew cab 4x4	37	Apr-22	Flaxbourne 1071	1998 Mitsubishi FK160F TK7701 2013 Toyota Hilux HAP224	Dispose Lyford 1025	1988 Toyota Hilux NP3215	Dispose				
Medium crew cab 4x4	38	May-22	Kaiaua 4271	1993 Mitsubishi	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	Jun-22	Darfield 692	2010 Iveco Eurocargo FFF431 1986 Hino GT NO185	Hanmer Springs 671 Dispose	1996 Mitsubishi FK160 UH5120	Dispose				
Medium crew cab 4x4	41	Jul-22	Minginui 5971	1983 Isuzu JCS KR6781	Dispose						

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
Medium crew cab 4x4	42	Jul-22	Whanganui 7171 Whanganui 7172	2002 Mitsubishi Canter BBS982 1995 Mitsubishi Canter BMT137	Dispose Papatowai 9771			1995 Nissan Condor EEU898	Dispose		
Medium crew cab 4x4	43	Aug-22	Wainuiomata Bush 9571 Wainuiomata Bush 9574	2002 Mitsubishi Canter BBS982 1995 Mitsubishi Canter BMT137	TBC TBC						
Medium crew cab 4x4	44	Aug-22	TBC								
Medium single cab 4x4	n/a	n/a	n/a	2006 Isuzu NPS400 DJR304	Wainuiomata Bush 9572	1999 Mitsubishi Canter CCB484	TBC				
Medium single cab 4x4	n/a	n/a	n/a	2007 Isuzu NPS400 DSK243	ANZAC 2710	1975 Toyota Landcruiser HW5777	Dispose				
Tanker	24	Nov-20	Ngaruawahia 3311	2006 Scania P420 DLB609	Dispose						
Tanker	25	Oct-20	Cust 7811	1988 Ford N1418 UN2827	Tokoroa 8711	n/a					

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Tanker	26	Oct-20	Geraldine 8411	1990 Ford N1521 PH5482	Dispose						
Tanker	27	Nov-20	Weston 7311	1990 Isuzu Forward FTR CTJ382	Tuatapere 7211	n/a					
Tanker	28	Dec-20	Palmerston North 8475	1991 Mitsubishi Fuso EMM429	Wyndham 4211	1984 Isuzu JCS420 MA1978	Dispose				
Tanker	29	Dec-20	Haumoana 5211	1991 Hino Ranger XL7992	Dispose						
Tanker	30	Nov-21	Swannanoa 1775	1998 Hino XC1598	Waipara 6111	1988 Isuzu FTR NZ4021	Dispose				
Tanker	31	Jan-22	Ngongotaha 8211	2006 Scania P420 NGOH20	Dispose						
Tanker	32	Apr-22	Wairoa 9411	1989 Mitsubishi Fuso AFH628	Dispose						
Tanker	33	Apr-22	Temuka 8611	2003 Hino BGJ894	Middlemarch 3811	1994 Isuzu FTS600 FDK770	Dispose				
Tanker	34	Jun-22	Dunstan 6711	1994 Nissan UD EKB575	Dispose						
Tanker	35	Jun-22	Amberley 4811	1986 Mitsubishi FV415 MT5618	Dispose						

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
Tanker	36	Jul-22	New Plymouth 6111	2002 Scania P114 JLB35	Dispose						
Tanker	37	Aug-22	Tokoroa 8711	1988 Ford N1418 UN2827	Hanmer 1375	1984 Isuzu JCS420 LT2608	Dispose				
Tanker	38	Aug-22	Patutahi 8375	TBC							
Tanker	39	Sept-22	Ruatoria 8875	1988 Isuzu FVR XA7040	Dispose						
Tanker	40	Oct-22	Stratford 4811	2003 Volvo FM12 BLA927	Dispose						
Tanker	41	Oct-22	Hawera 5511	2000 Volvo FM12 ZH3719	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 Fleet team generally apply the following cascade principles:

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.

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	28 March 2022
Review period	Yearly

**Record of amendments**

Date	Brief description of amendment
March 2022	Updated cascade plan
June 2021	Updated cascade plan for September 2021
September 2019	Updated cascade plan for June 2020.