

# 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.

---

Released under the Official Information Act 1982

## Appliance cascade plan

The appliance cascade plan and schedule resulting from the new appliance deliveries up to September 2021 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	146	Jun-20	Marton 811	2010 Iveco Eurocargo FGY569	Woodville 431	1992 Mitsubishi FK160 RQ7562	None				
1	147	Jul-20	Westport 781	2010 Iveco Eurocargo FJP171	Rai Valley (Aux) 231	1993 Mitsubishi FK160 RU6112	None				
1	148	Jul-20	Wanaka 851	2010 Iveco Eurocargo FGY527	Kaitangata 521	1994 Mitsubishi FK160 SH9828	None				
1	149	Aug-20	Wellsford 951	2010 Iveco Eurocargo FPS500	Puhi 7471	1992 DENNIS DS 155 ALJ957	None				
1	150	Sep-20	Te Aroha 371	2010 Iveco Eurocargo FFF436	Whitikahu(aux) 341	1994 Mitsubishi FK160 SX5862	None				
1	151	Oct-20	Blenheim 242	2010 Iveco Eurocargo FED933	Upper Moutere (Aux) 321	1992 Mitsubishi FK160 RR5580	None				

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	152	Oct-20	Alexandra 391	2010 Iveco Eurocargo FGY584	Clyde 411	1994 Mitsubishi FK160 SM2955	None				
1	153	Oct-20	Newlands 291	2010 Iveco Eurocargo FGY563	Hampden 9271	1989 Hino PA8553	None				
1	154	Nov-20	Whitianga 591	2010 Iveco Eurocargo FML403	Hahei 621	1993 Mitsubishi FK160 RR3983	None				
1	155	Dec-20	Haumoana 521	2010 Iveco Eurocargo FJP191	Pahiatua 451	1993 Mitsubishi FK160 SC7309	None				
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				

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	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				
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				

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	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 FK160 WS633	Dispose				
2	101	Mar-20	Motueka 367	2011 Iveco Eurocargo GBC605	Area 17 Relief (Nelson) 1701	1992 Hino FD1017 RI5377	None				
2	102	Apr-20	Wairoa 947	2012 Iveco Eurocargo GPH550	Area 14 Relief (New)	N/A	N/A				
2	103	Jun-20	Kaikohe 657	2012 Iveco Eurocargo GPH542	New Region 1 relief appliance (Northland)	N/A	N/A				
2	104	Jun-20	TBD								

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
2	105	Jul-20	Ashburton 627	2013 Iveco Eurocargo GTQ589	Additional Training appliance Region 4	N/A	N/A				
2	106	Aug-20	Whakatane 927	2013 Iveco Eurocargo GTQ636	Palmerston 747	2006 Iveco Eurocargo DJD132	Lawrence 587	1982 International 1810C KR4569	None		
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				
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	Takaka 397	1997 Scania P94DB WN9540	Region 2 Rotorua Relief REGN206	1992 Scania G93M RG7983	TBD

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
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	Katikati 767	2008 Iveco Eurocargo ELP722	Fairlie 827	1986 Mitsubishi FP418 NJ5661	Dispose		
2	117	Aug-21	Otorohanga 467	2012 Iveco Eurocargo GJT772	Stratford 487	2006 Iveco Eurocargo DLH647	Opunake 537	1987 Mitsubishi FP418 NK5407	Dispose		
2	118	Aug-21	New Plymouth West 621	1990 Scania G93 PT2890	TBD						
2	119	Sep-21	Pokeno 507	2014 Iveco Eurocargo HKC960	Wellsford 957	2008 Iveco Eurocargo EJZ582	Woodville 437	1988 Mitsubishi FP418 OB1780	Area 11 Relief (Tararua)	N/A	
2	120	Sep-21	Warkworth 937	2014 Iveco Eurocargo HFK927	Region 2 Relief REGN210	2008 Iveco Eurocargo EHE609	Hunterville 797	1992 Ford Cargo 1218 PT2900	Dispose		
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

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
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						
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						



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
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	Darfield 692	2010 Iveco Eurocargo FFF431 1986 Hino GR NO185	Hanmer Springs 671 Dispose	1996 Mitsubishi FK160 UH5120	Dispose				
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	33	May-21	Manaia 6671	1992 Hino FD162 RH3129	Dispose						

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
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					
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	Dispose					
Tanker	29	Dec-20	Haumoana 5211	1991 Hino Ranger XL7992	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 of the plan to September 2021**

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

Type	Principles applied
1	In most cases, the Type 1s being replaced in Tier 2 are a similar age to those in Tier 3, and therefore there are not many cascades to Tier 3.
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	22 June 2021
Review period	Yearly

**Record of amendments**

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