

# 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              | 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 FK195 ZA5828             | Waimana 9871        | 1987 Hino FD162LA NU3414                   | Dispose             |                                           |                     |
| 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             |                                           |                     |

| New appliances |         |                |                  | Cascading appliances                    |                                |                                          |                     |                                            |                     |                                           |                     |
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| 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              | 200     | Sep-24         | Lincoln 411      | 1994 Mitsubishi FP270 SR8098            | National relief fleet (Type 3) | n/a                                      |                     |                                            |                     |                                           |                     |
| 1              | 201     | Oct-24         | Matamata 381     | 2013 Iveco Eurocargo ML120 GRQ183       | Te Karaka 851                  | 2000 Mitsubishi FK195 ZB9533             | Rangiwahia 421      | 1989 Hino FD162LA ON2164                   | Dispose             |                                           |                     |
| 1              | 202     | Oct-24         | Paihia 751       | 2013 Iveco Eurocargo ML120 GWW922       | Fairlie 821                    | 2000 Mitsubishi FK195 ZF8738             | Duntroon 841        | 89 Hino FD162LA OP1371                     | Dispose             |                                           |                     |
| 1              | 203     | Oct-24         | Maungaturoto 801 | 2013 Iveco Eurocargo ML120 HAT651       | Riverton 331                   | 2000 Mitsubishi FK195 ZE7022             | Kingston 9371       | 1989 FD162 NW1113                          | Dispose             |                                           |                     |
| 1              | 204     | Nov-24         | Lake Taupo 291   | 2014 Iveco Eurocargo ML120 HFK928       | National relief fleet (Type 2) | n/a                                      |                     |                                            |                     |                                           |                     |
| 1              | 205     | Nov-24         | Titahi Bay 341   | 2014 Iveco Eurocargo ML120 HGH774       | National relief fleet (Type 2) | n/a                                      |                     |                                            |                     |                                           |                     |
| 1              | 206     | Nov-24         | Waipukurau 581   | 2014 Iveco Eurocargo ML120 HFK881       | Waitarere 351                  | 2000 Mitsubishi FK195 YY8728             | Collingwood 402     | 1989 Hino FH222 ON2766                     | 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                   | 207     | Dec-24         | Oneroa 401    | 2013 Iveco Eurocargo ML120 HAT636       | Wyndham 421                    | 2008 Iveco Eurocargo ML120 ERF424        | Otautau 581         | 1990 Hino FH222 OL5929                     | Dispose             |                                           |                     |
| 1                   | 208     | Dec-24         | Kumeu 861     | 2013 Iveco Eurocargo ML120 GPY65        | Okere Falls 6971               | 2002 Mitsubishi FK195f1 THUMPY           | Kuaotunu 8472       | 1989 Hino OI5115                           | Dispose             |                                           |                     |
| 1                   | 209     | Jan-25         | Mangawhai 801 | 2014 Iveco Eurocargo HKC953             | Te Ihu Training                | 1999 Mitsubishi FK195 XI8439             | Waikari 601         | 1990 Hino FD1017 PN1268                    | Dispose             |                                           |                     |
| 1                   | 210     | Feb-25         | Ngatea 521    | 2014 Iveco Eurocargo ML120 HEQ658       | Tahuna 351                     | 2002 Mitsubishi FK195 ANA514             | Turua 531           | 1989 Hino FD162LA OO3207                   | Dispose             |                                           |                     |
| 1                   | 211     | Feb-25         | Carterton 621 | 2014 Iveco Eurocargo ML120 HJA688       | National relief fleet (Type 2) |                                          |                     |                                            |                     |                                           |                     |
| 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             |                                            |                     |                                           |                     |

| 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 | 40      | Feb-23         | Minginui 5971                    | 1983 Isuzu JCS KR6781                                     | Dispose                       |                                          |                               |                                            |                     |                                           |                     |
| Medium crew cab 4x4 | 41      | Feb-23         | Whanganui 7171<br>Whanganui 7172 | 2001 Mitsubishi Canter XU4834<br>2003 Isuzu NPS450 BLP665 | Dispose<br>Papatowai 9771     |                                          | 1995 Nissan Condor EEU898     |                                            |                     |                                           |                     |
| Medium crew cab 4x4 | 42      | Mar-23         | Houhora 5471                     | 2015 Isuzu FTS800                                         | Tinopai 8871                  | 2003 Isuzu NPS BGD639                    | Rangitata Gorge 5571          | 1982 Isuzu SBR422 KT371                    | Dispose             |                                           |                     |
| Medium crew cab 4x4 | 43      | Mar-23         | Darfield 692                     | 2010 Iveco Eurocargo FFF431<br>1986 Hino GT NO185         | Hanmer Springs 671<br>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         | Patea 58xx                       | 2009 Iveco Daily LRV EYZ767                               | Whakapapa 2920                | 1998 Mitsubishi Canter WM6773            | Auckland Operations Support 2 | 1997 Mitsubishi Canter WR8188              | Dispose             |                                           |                     |

| New appliances      |         |                |                          | Cascading appliances                    |                     |                                          |                        |                                            |                     |                                           |                     |
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| 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 | 47      | Oct-23         | Southern Lake Taupo 3071 | 1991 Mercedes CDR289                    | Kaingaroa 611       | 1998 Mitsubishi FK195 WY1841             | Dispose                |                                            |                     |                                           |                     |
| Medium crew cab 4x4 | 48      | Oct-23         | Lauriston 8871           | 2018 Isuzu FSS550 4x4 Crew Cab MGQ375   | Athol 9171          | 2009 Isuzu NPS400 4x4 EWR642             | Rai Valley 2371        | 1996 Isuzu F Series FTS600 HEG257          | Tokomaru Bay 9275   | 1985 Hino FI175 MJ5359                    | Dispose             |
| 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             |                                           |                     |

| New appliances      |         |                |                 | Cascading appliances                    |                                  |                                                      |                     |                                            |                     |                                           |                     |
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| 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 | 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             |                                           |                     |
| 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<br>Elsthorpe 7925 | 2012 Isuzu NPS300 GJF645<br>2018 Toyota Hilux LKP127 | Te Pohue 7371       | 2001 Mazda Bounty QAJW403 and trailer      | 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         | Arrowtown 7811  | 2007 Volvo FE320 JNL395                 | 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             |                                            |                     |                                           |                     |
| Medium tanker       | 50      | Nov-23         | Balclutha 4611  | 2008 Volvo FE280 JFH886                 | Lumsden 5411                     | 1989 Ford N1418 RO982                                | Dispose             |                                            |                     |                                           |                     |

| New appliances |         |                |                  | Cascading appliances                    |                     |                                          |                     |                                            |                     |                                           |                     |
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| 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 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             |                                            |                     |                                           |                     |
| Medium tanker  | 53      | Nov-24         | Southbridge 4511 | 1998 Hino Ranger EMT607                 | Hanmer Springs 1311 | 1988 Ford N1418 UN2827                   | Dispose             |                                            |                     |                                           |                     |
| Medium tanker  | 54      | Dec-24         | Waiholā 6811     | 2010 Volvo FL260 HUQ276                 | Lawrence 5811       | 2007 Mercedes Atego KCC723               | Dispose             |                                            |                     |                                           |                     |
| Medium tanker  | 55      | Jan-25         | Paraparaumu 3711 | n/a                                     |                     |                                          |                     |                                            |                     |                                           |                     |
| Medium tanker  | 56      | Feb-25         | Te Akau 8775     | 1996 Hino EDG422                        | Te Karaka 8575      | 1988 Isuzu XA7040                        | Dispose             |                                            |                     |                                           |                     |
| Medium tanker  | 57      | Mar-25         | Kerikeri 6711    | 2018 Hino 500 MML298                    | Motunau Beach 9711  | 1989 Ford N1518 OK4018                   | Dispose             |                                            |                     |                                           |                     |
| Medium tanker  | 58      | Mar-25         | TBC              |                                         |                     |                                          |                     |                                            |                     |                                           |                     |
| Medium tanker  | 59      | Apr-25         | TBC              |                                         |                     |                                          |                     |                                            |                     |                                           |                     |
| Medium tanker  | 60      | May-25         | TBC              |                                         |                     |                                          |                     |                                            |                     |                                           |                     |

| 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 tanker  | 61      | Jun-25         | TBC     |                                         |                     |                                          |                      |                                            |                     |                                           |                     |
| Medium tanker  | 62      | Jun-25         | TBC     |                                         |                     |                                          |                      |                                            |                     |                                           |                     |
| n/a            | n/a     | n/a            | n/a     | n/a                                     | Turangi 2371        | 2004 Isuzu NPS450 CGH711                 | Matakana Island 7071 | 1984 Isuzu JCS LQ1324                      | 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.

## Related information

### Policy

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

### Document information

|               |                        |
|---------------|------------------------|
| Owner         | National Manager Fleet |
| Last reviewed | 1 November 2024        |
| Review period | Yearly                 |

### Record of amendments

| Date            | Brief description of amendment                                                     |
|-----------------|------------------------------------------------------------------------------------|
| November 2024   | Updated cascade plan                                                               |
| 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.                                                |