## Malvern (Southern Metropolitan) State Electoral Division: social needs, gaps in transit

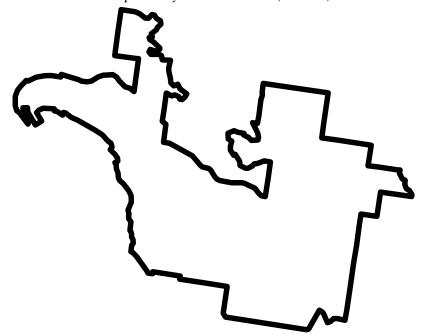
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This note is part of a series examining transit social needs-gaps in Greater Melbourne<sup>1</sup>. In Victoria, public transport is the responsibility of the state government, which is formed from among Members of Parliament elected to represent individual State Electoral Divisions (seats). However, it is unclear how much transit is supplied or how well social needs for transport are met within each seat. Using the Currie and Sendbergs (2007) methodology<sup>2</sup>, this note explores social needs for transport, and transit provision in 2021 and 2023, in the Malvern (Southern Metropolitan) State Electoral Division.

## Methods:

Scores for transit supply and transport needs were calculated based on the Victorian GTFS feed<sup>3</sup> and Australian Bureau of Statistics (ABS) data using the *gtfssupplyindex* R package<sup>4</sup> as per Reynolds, Currie and Qu (in drafting)<sup>5</sup>. Results are shown for the ABS' Statistical Area 1s (SA1s), categorized based on averages across the Melbourne Greater Capital City Statistical Area (GCCSA).



RESULTS: Figure 1 compares social needs for similarly located seats<sup>6</sup>, and for the rest of Greater Melbourne with those for the Malvern

<sup>1</sup> See https://tinyurl.com/4rctaxfc



- <sup>2</sup> Graham Currie and Zed Senbergs, "Identifying Spatial Gaps in Public Transport Provision for Socially Disadvantaged Australians: The Melbourne 'Needs Gap' Study," 2007; Graham Currie, "Quantifying Spatial Gaps in Public Transport Supply Based on Social Needs," *Journal of Transport Geography* 18, no. 1 (2010): 31–41.
- <sup>3</sup> Results are based on GTFS feeds for August 2021 and 2023, so may not match services run.
- <sup>4</sup> See https://github.com/ James-Reynolds/gtfssupplyindex
- <sup>5</sup> James Reynolds, Graham Currie, and Yanda Qu, "Social Needs for Transport and Gaps in Transit Service: New GTFS Tools," *In Drafting*, 2024.

<sup>&</sup>lt;sup>6</sup> Prahran, Albert Park, Brighton, Malvern, Oakleigh, Bentleigh, Clarinda, Sandringham and Mordialloc

## (Southern Metropolitan) State Electoral Division.

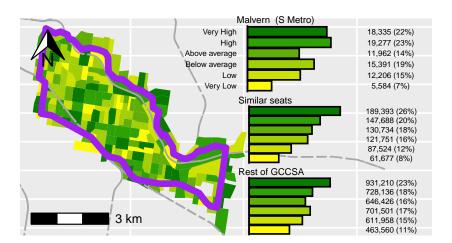


Figure 1: Needs in 2021 by population, with suburban railways shown in grey

Needs were higher than the Melbourne average for 60% of Malvern's population in 2021, which is a higher proportion than for elsewhere in Melbourne, beyond the similarly located seats (56%)7.

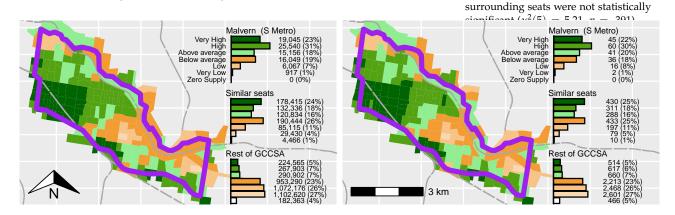


Figure 2 shows the distribution of transit service in 2021 and 2023. Service levels were below the Melbourne average for 28% of Malvern (S Metro) residents in 2021, which is a lower proportion than for the surrounding seats (42%)<sup>8</sup> or than for the rest of Melbourne (81%)<sup>9</sup>. The distribution of transit supply, categorised with respect to the Melbourne average, appears similar in 2023 (Figure 2, right). Figure 3 directly compares 2021 and 2023 service levels.

Transit levels increased by 1% or more by 2023 in SA1s that were home to 53% of Malvern residents in 2021, which is a lower share than for similarly located seats (46%)<sup>10</sup> or the rest of Melbourne (31%)<sup>11</sup>. 18% of the Malvern population lived in SA1s with *needs* above, but supply below the Melbourne averages in 2021<sup>12</sup>. However,

Figure 2: Transport Supply 2021 (left, by population) and 2023 (right, by SA1)

<sup>7</sup> Differences between Malvern and the

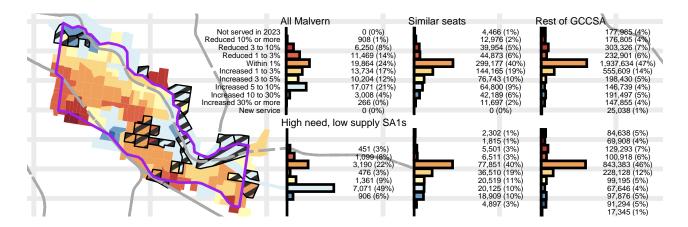
<sup>&</sup>lt;sup>8</sup> Differences were statistically significant ( $\chi^2(6) = 27.75$ , p < .001

<sup>&</sup>lt;sup>9</sup> Differences were statistically significant ( $\chi^2(6) = 392.44$ , p < .001).

<sup>10</sup> Differences were statistically significant ( $\chi^2(9) = 71.78$ , p < .001).

<sup>&</sup>lt;sup>11</sup> Differences were statistically significant ( $\chi^2(10) = 256.67$ , p < .001).

<sup>12</sup> Shown with black in Figure 3. This compares to 26% of residents of similarly located seats and 45% of those elsewhere in Melbourne.



for 55% of this cohort service levels increased 1% or more by 2023<sup>13</sup>. Overall, residents of the seat of Malvern appear to have been less likely to have less transit supply than Melbourne's average than elsewhere, but also less likely to have seen service increases between 2021 and 2023.

Figure 3: Transit service change 2021 to 2023 by population. SA1s with ngodscalences but supply the low anyerage highlighted in the similar cohorts across similarly located seats (Fisher test p = 0.39) or the rest of Greater Melbourne (Fisher test p = 0.069).

##		ratio_binned	${\tt population}$	perc
##	1	New service	0	0.000000000
##	2	Increased 30% or more	266	0.003213569
##	3	Increased 10 to 30%	3008	0.036339913
##	4	Increased 5 to 10%	17071	0.206236258
##	5	Increased 3 to 5%	10204	0.123275425
##	6	Increased 1 to 3%	13734	0.165921666
##	7	Within 1%	19864	0.239978737
##	8	Reduced 1 to 3%	11469	0.138558001
##	9	Reduced 3 to 10%	6250	0.075506802
##	10	Reduced 10% or more	908	0.010969628
##	11	Not served in 2023	0	0.000000000
##		ratio_binned	population	perc
## ##	1	ratio_binned New service		perc
	1 2		0	-
##	_	New service	0 11697	0.000000000
##	2	New service Increased 30% or more	0 11697 42189	0.000000000 0.015784573
## ## ##	2	New service Increased 30% or more Increased 10 to 30%	0 11697 42189 64800	0.00000000 0.015784573 0.056932149
## ## ## ##	2 3 4	New service Increased 30% or more Increased 10 to 30% Increased 5 to 10%	0 11697 42189 64800 76743	0.00000000 0.015784573 0.056932149 0.087444672
## ## ## ##	2 3 4 5	New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5%	0 11697 42189 64800 76743 144165	0.00000000 0.015784573 0.056932149 0.087444672 0.103561211
## ## ## ## ##	2 3 4 5	New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3%	0 11697 42189 64800 76743 144165 299177	0.00000000 0.015784573 0.056932149 0.087444672 0.103561211 0.194544154
## ## ## ## ## ##	2 3 4 5 6 7	New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1%	0 11697 42189 64800 76743 144165 299177 44873	0.00000000 0.015784573 0.056932149 0.087444672 0.103561211 0.194544154 0.403725845
## ## ## ## ## ##	2 3 4 5 6 7 8	New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3%	0 11697 42189 64800 76743 144165 299177 44873 39954	0.00000000 0.015784573 0.056932149 0.087444672 0.103561211 0.194544154 0.403725845 0.060554086

```
##
               ratio_binned population
                                               perc
## 1
                New service
                                  25038 0.00611605
      Increased 30% or more
## 2
                                 147855 0.03611664
        Increased 10 to 30%
## 3
                                 191497 0.04677710
## 4
         Increased 5 to 10%
                                 146739 0.03584404
          Increased 3 to 5%
## 5
                                 198430 0.04847063
## 6
          Increased 1 to 3%
                                 555609 0.13571899
## 7
                  Within 1%
                                1937634 0.47330720
## 8
            Reduced 1 to 3%
                                 232901 0.05689089
           Reduced 3 to 10%
## 9
                                 303326 0.07409365
## 10
        Reduced 10% or more
                                 176805 0.04318828
## 11
         Not served in 2023
                                 177985 0.04347652
##
       ratio_binned_less population
                                             ratio_binned
                                                                 perc
## 1 Increased 10 to 30%
                                 906 Increased 10 to 30% 0.06225093
      Increased 5 to 10%
                                      Increased 5 to 10% 0.48584582
                                7071
## 3
       Increased 3 to 5%
                                       Increased 3 to 5% 0.09351381
                                1361
       Increased 1 to 3%
                                       Increased 1 to 3% 0.03270579
## 4
                                 476
## 5
               Within 1%
                                3190
                                                Within 1% 0.21918373
## 6
         Reduced 1 to 3%
                                1099
                                         Reduced 1 to 3% 0.07551189
        Reduced 3 to 10%
                                        Reduced 3 to 10% 0.03098804
## 7
                                 451
          ratio_binned_less population
                                                  ratio_binned
                                                                       perc
##
## 1
      Increased 30% or more
                                   4897 Increased 30% or more 0.025120550
## 2
                                           Increased 10 to 30% 0.096999077
        Increased 10 to 30%
                                  18909
## 3
         Increased 5 to 10%
                                  20125
                                            Increased 5 to 10% 0.103236893
                                             Increased 3 to 5% 0.105258028
## 4
          Increased 3 to 5%
                                  20519
                                             Increased 1 to 3% 0.187288396
## 5
          Increased 1 to 3%
                                  36510
                                                     Within 1% 0.399358777
## 6
                  Within 1%
                                  77851
            Reduced 1 to 3%
                                               Reduced 1 to 3% 0.033400021
## 7
                                   6511
           Reduced 3 to 10%
                                              Reduced 3 to 10% 0.028218939
## 8
                                   5501
        Reduced 10% or more
                                           Reduced 10% or more 0.009310557
## 9
                                   1815
## 10
         Not served in 2023
                                   2302
                                            Not served in 2023 0.011808762
##
          ratio_binned_less population
                                                  ratio_binned
                                                                      perc
## 1
                New service
                                  17345
                                                   New service 0.00948009
## 2
      Increased 30% or more
                                  91294 Increased 30% or more 0.04989768
## 3
        Increased 10 to 30%
                                  97876
                                           Increased 10 to 30% 0.05349514
         Increased 5 to 10%
                                            Increased 5 to 10% 0.03697262
## 4
                                  67646
## 5
          Increased 3 to 5%
                                  99195
                                             Increased 3 to 5% 0.05421606
## 6
          Increased 1 to 3%
                                 228128
                                             Increased 1 to 3% 0.12468573
                                                     Within 1% 0.46095974
## 7
                  Within 1%
                                 843383
                                               Reduced 1 to 3% 0.05515778
## 8
            Reduced 1 to 3%
                                 100918
## 9
           Reduced 3 to 10%
                                 129293
                                              Reduced 3 to 10% 0.07066643
## 10
        Reduced 10% or more
                                  69908
                                           Reduced 10% or more 0.03820894
## 11
         Not served in 2023
                                            Not served in 2023 0.04625978
                                  84638
```

```
## [1] 1
    transit_supply Malvern (S Metro) Similar seats
##
##
       Zero Supply
                                      0
                                                    10
##
          Very Low
                                      2
                                                    82
               Low
                                                   206
##
                                     15
##
     Below average
                                     40
                                                   446
##
     Above average
                                     37
                                                   276
##
               High
                                                   309
                                     61
         Very High
                                                   419
##
                                     45
## [1] 2
    transit_supply Malvern (S Metro) Similar seats
##
##
       Zero Supply
                              1.026694
                                             8.973306
##
          Very Low
                              8.624230
                                            75.375770
##
               Low
                             22.689938
                                           198.310062
##
     Below average
                              49.897331
                                           436.102669
##
     Above average
                              32.135524
                                           280.864476
##
               High
                             37.987680
                                           332.012320
##
         Very High
                              47.638604
                                           416.361396
## [1] 3
##
    transit_supply Malvern
                            (S Metro) Rest of Greater Melbourne
                                      0
##
       Zero Supply
                                                                479
##
          Very Low
                                      2
                                                               2608
##
               Low
                                     15
                                                               2470
##
     Below average
                                     40
                                                               2205
##
     Above average
                                     37
                                                                662
               High
                                                                604
##
                                     61
                                     45
##
         Very High
                                                                511
## [1] 4
##
    transit_supply Malvern (S Metro) Rest of Greater Melbourne
##
       Zero Supply
                              9.836739
                                                          469.1633
                             53.598932
##
          Very Low
                                                         2556.4011
                                                         2433.9681
##
               Low
                              51.031933
     Below average
                                                         2198.8967
##
                              46.103296
##
     Above average
                              14.354657
                                                          684.6453
##
                              13.656433
                                                          651.3436
               High
         Very High
##
                              11.418010
                                                          544.5820
## [1] 5
```

transit\_supply Malvern (S Metro) Similar seats

```
Zero Supply
##
                                      0
                                                    10
##
          Very Low
                                      2
                                                    79
               Low
                                     16
                                                   197
##
##
     Below average
                                     36
                                                   433
##
     Above average
                                     41
                                                   288
##
              High
                                     60
                                                   311
         Very High
                                                   430
##
                                     45
## [1] 6
##
    transit_supply Malvern (S Metro) Similar seats
##
       Zero Supply
                              1.026694
                                             8.973306
          Very Low
##
                              8.316222
                                            72.683778
##
               Low
                             21.868583
                                           191.131417
##
     Below average
                             48.151951
                                           420.848049
     Above average
##
                             33.778234
                                           295.221766
##
              High
                             38.090349
                                           332.909651
##
         Very High
                             48.767967
                                           426.232033
## [1] 7
    transit_supply Malvern (S Metro) Rest of Greater Melbourne
##
##
       Zero Supply
                                      0
                                                                466
          Very Low
                                      2
                                                              2601
##
##
               Low
                                     16
                                                              2468
     Below average
                                     36
##
                                                              2213
##
     Above average
                                     41
                                                                660
##
              High
                                     60
                                                                617
         Very High
##
                                     45
                                                                514
## [1] 8
    transit_supply Malvern (S Metro) Rest of Greater Melbourne
##
##
       Zero Supply
                              9.569771
                                                          456.4302
##
          Very Low
                             53.455180
                                                         2549.5448
##
               Low
                             51.011397
                                                         2432.9886
##
     Below average
                             46.185440
                                                         2202.8146
##
     Above average
                                                          686.6043
                             14.395729
##
              High
                             13.902865
                                                          663.0971
##
         Very High
                             11.479618
                                                          547.5204
## [1] 9
##
             ratio_binned Malvern (S Metro) Similar seats
    Increased 30% or more
##
                                             1
                                                           30
      Increased 10 to 30%
                                             8
                                                           95
##
##
       Increased 5 to 10%
                                            45
                                                          147
```

	T 10 1 5W	0.4	404	
##	Increased 3 to 5%	21		
##	Increased 1 to 3%	35		
##	Within 1%	45		
##	Reduced 1 to 3%	27		
##	Reduced 3 to 10%	15		
##	Reduced 10% or more	3		
##	Not served in 2023	0	10	
##	[1] 10			
##	ratio_binned	Malvern (S Metro)	Similar seats	
##	Increased 30% or more	3.182752	27.817248	
##	Increased 10 to 30%	10.574949	92.425051	
##	Increased 5 to 10%	19.712526	172.287474	
##	Increased 3 to 5%	20.739220	181.260780	
##	Increased 1 to 3%		331.114990	
##	Within 1%	78.028747		
##	Reduced 1 to 3%	13.449692	117.550308	
##	Reduced 3 to 10%	11.806982	103.193018	
##	Reduced 10% or more	3.593429		
##	Not served in 2023	1.026694	8.973306	
##	[1] 11			
##		Malvern (S Metro)	Rest of Greater	Melbourne
		Malvern (S Metro)	Rest of Greater	Melbourne 59
##	ratio_binned		Rest of Greater	
## ##	ratio_binned New service	0	Rest of Greater	59
## ## ##	ratio_binned New service Increased 30% or more	0 1		59 320
## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30%	0 1 8		59 320 434
## ## ## ##	ratio_binned  New service Increased 30% or more Increased 10 to 30% Increased 5 to 10%	0 1 8 45		59 320 434 346
## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5%	0 1 8 45 21		59 320 434 346 439
## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3%	0 1 8 45 21 35		59 320 434 346 439 1290
## ## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1%	0 1 8 45 21 35		59 320 434 346 439 1290 4532
## ## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3%	0 1 8 45 21 35 45		59 320 434 346 439 1290 4532 543
## ## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10%	0 1 8 45 21 35 45 27		59 320 434 346 439 1290 4532 543 695
## ## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more	0 1 8 45 21 35 45 27 15		59 320 434 346 439 1290 4532 543 695 415
## ## ## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more Not served in 2023	0 1 8 45 21 35 45 27 15		59 320 434 346 439 1290 4532 543 695 415 466
## ## ## ## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more Not served in 2023	0 1 8 45 21 35 45 27 15 3		59 320 434 346 439 1290 4532 543 695 415 466
## ## ## ## ## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more Not served in 2023 [1] 12 ratio_binned	0 1 8 45 21 35 45 27 15 3 0		59 320 434 346 439 1290 4532 543 695 415 466
## ## ## ## ## ## ## ##	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more Not served in 2023  [1] 12  ratio_binned New service Increased 30% or more	0 1 8 45 21 35 45 27 15 3 0  Malvern (S Metro) 1.211623		59 320 434 346 439 1290 4532 543 695 415 466  Melbourne 57.78838
######################################	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more Not served in 2023  [1] 12  ratio_binned New service	0 1 8 45 21 35 45 27 15 3 0  Malvern (S Metro) 1.211623 6.592053		59 320 434 346 439 1290 4532 543 695 415 466  Melbourne 57.78838 314.40795
######################################	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more Not served in 2023  [1] 12  ratio_binned New service Increased 30% or more Increased 10 to 30%	0 1 8 45 21 35 45 27 15 3 0  Malvern (S Metro) 1.211623 6.592053 9.076907		59 320 434 346 439 1290 4532 543 695 415 466  Melbourne 57.78838 314.40795 432.92309
######################################	ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more Not served in 2023  [1] 12  ratio_binned New service Increased 30% or more Increased 10 to 30% Increased 5 to 10%	0 1 8 45 21 35 45 27 15 3 0  Malvern (S Metro) 1.211623 6.592053 9.076907 8.029572	Rest of Greater	59 320 434 346 439 1290 4532 543 695 415 466  Melbourne 57.78838 314.40795 432.92309 382.97043

## ## ## ##	Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more Not served in 2023	93.993223 11.705514 14.580552 8.584044 9.569771	4483.00678 558.29449 695.41945 409.41596 456.43023
##	[1] 13		
##	composite_needs Malvern	(S Metro) Similar seats	
##	Very Low	22 243	
##	Low	38 265	
##	Below average	41 312	
##	Above average	28 292	
##	High	38 291	
##	Very High	30 296	
##	NA	3 49	
##	[1] 14		
##	Malvern (S Metro) Simi	lar seats	
##	1 27.53428	237.4657	
##	2 31.48259	271.5174	
##	3 36.67774	316.3223	
##	4 33.24895	286.7511	
##	5 34.18407	294.8159	
##	6 33.87236	292.1276	
##	[1] 15		
##	composite_needs Malvern	(S Metro) Rest of Greater	Melbourne
##	Very Low	22	1771
##	Low	38	1732
##	Below average	41	1682
##	Above average	28	1358
##	High	38	1348
##	Very High	30	1351
##	NA	3	297
##	[1] 16		
##	·	of Greater Melbourne	
##		1755.579	
##		1733.059	
##		1687.040	
##		1357.073	
##		1357.073	
##	6 28.82265	1352.177	

##	ratio_binned_less	Malvern	(S Metro)	Similar seats	
##	Not served in 2023		0	4	
##	Increased 30% or more		0	9	
##	Increased 10 to 30%		2	35	
##	Increased 5 to 10%		14	37	
##	Increased 3 to 5%		3	39	
##	Increased 1 to 3%		1	67	
##	Within 1%		6	150	
##	Reduced 1 to 3%		2	13	
##	Reduced 3 to 10%		1	11	
##	Reduced 10% or more		0	4	
##	ratio_binned_less	Malvern	(S Metro)	Similar seats	
##	Not served in 2023		0.2914573	3.708543	
##	Increased 30% or more		0.6557789	8.344221	
##	Increased 10 to 30%		2.6959799	34.304020	
##	Increased 5 to 10%		3.7160804	47.283920	
##	Increased 3 to 5%		3.0603015	38.939698	
##	Increased 1 to 3%		4.9547739	63.045226	
##	Within 1%		11.3668342	144.633166	
##	Reduced 1 to 3%		1.0929648	13.907035	
##	Reduced 3 to 10%		0.8743719	11.125628	
	A.				
##	Reduced 10% or more		0.2914573	3.708543	
##	Reduced 10% or more ratio_binned_less	Malvern			Melbourne
		Malvern			Melbourne 149
##	ratio_binned_less	Malvern	(S Metro)		
## ##	ratio_binned_less Not served in 2023	Malvern	(S Metro)		149
## ## ##	ratio_binned_less Not served in 2023 New service	Malvern	(S Metro) 0		149 30
## ## ##	ratio_binned_less Not served in 2023 New service Increased 30% or more	Malvern	(S Metro) 0 0		149 30 149
## ## ## ##	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30%	Malvern	(S Metro) 0 0 0 2		149 30 149 168
## ## ## ## ##	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10%	Malvern	(S Metro) 0 0 0 2 14		149 30 149 168 118
## ## ## ## ##	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5%	Malvern	(S Metro) 0 0 0 2 14 3		149 30 149 168 118
## ## ## ## ## ##	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3%	Malvern	(S Metro) 0 0 2 14 3 1		149 30 149 168 118 174 403
## ## ## ## ## ##	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10%	Malvern	(S Metro) 0 0 2 14 3 1 6		149 30 149 168 118 174 403
## ## ## ## ## ## ##	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3%	Malvern	(S Metro) 0 0 2 14 3 1 6 2		149 30 149 168 118 174 403 1487
## ###################################	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10%		(S Metro) 0 0 2 14 3 1 6 2 1	Rest of Greater	149 30 149 168 118 174 403 1487 176 230 124
######################################	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more		(S Metro) 0 0 2 14 3 1 6 2 1	Rest of Greater	149 30 149 168 118 174 403 1487 176 230 124
######################################	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more ratio_binned_less Not served in 2023 New service		(S Metro)  0  0  2 14 3 1 6 2 1 0  (S Metro) 1.3348780 0.2687674	Rest of Greater	149 30 149 168 118 174 403 1487 176 230 124 Melbourne 147.66512 29.73123
######################################	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more ratio_binned_less Not served in 2023 New service Increased 30% or more		(S Metro)  0  0  2 14 3 1 6 2 1 0  (S Metro) 1.3348780	Rest of Greater	149 30 149 168 118 174 403 1487 176 230 124  Melbourne 147.66512 29.73123 147.66512
######################################	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30%		(S Metro)  0  0  2 14 3 1 6 2 1 0  (S Metro) 1.3348780 0.2687674	Rest of Greater	149 30 149 168 118 174 403 1487 176 230 124 Melbourne 147.66512 29.73123
######################################	ratio_binned_less Not served in 2023  New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 1 to 3%  Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more  ratio_binned_less Not served in 2023  New service Increased 30% or more Increased 10 to 30% Increased 5 to 10%		(S Metro)  0  0  14 3 1 6 2 1 0  (S Metro) 1.3348780 0.2687674 1.3348780 1.5230151 1.1825765	Rest of Greater	149 30 149 168 118 174 403 1487 176 230 124  Melbourne 147.66512 29.73123 147.66512 168.47698 130.81742
######################################	ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30% Increased 5 to 10% Increased 3 to 5% Increased 1 to 3% Within 1% Reduced 1 to 3% Reduced 3 to 10% Reduced 10% or more ratio_binned_less Not served in 2023 New service Increased 30% or more Increased 10 to 30%		(S Metro)  0  0  14  3  1  6  2  1  0  (S Metro)  1.3348780  0.2687674  1.3348780  1.5230151	Rest of Greater	149 30 149 168 118 174 403 1487 176 230 124  Melbourne 147.66512 29.73123 147.66512 168.47698

##	Within 1%	13.3756565	1479.62434
##	Reduced 1 to 3%	1.5946864	176.40531
##	Reduced 3 to 10%	2.0695088	228.93049
##	Reduced 10% or more	1.1109052	122.88909