Vicmap Maintenance 2017 / 2018

Vicmap Improvement Projects

Vicmap Future Projects
2017/18 Vicmap Vector Data Maintenance
Vicmap Vector Data Maintenance 2017/2018

Vicmap vector data maintenance is provided by a private company through two contracts:

**Vicmap Land Administration Themes (VLAT):**
- Vicmap Address
- Vicmap Admin
- Vicmap CL Tenure
- Vicmap Property

**Vicmap Topographic Themes (VTT):**
- Vicmap Admin (Topo versions of LGA and Localities)
- Vicmap Elevation
- Vicmap Features of Interest (VMFoI)
- Vicmap Hydro
- Vicmap Index
- Vicmap Transport
- Vicmap Vegetation
Parcel Subdivisional Activity

2017/2018: 79,401
(3% Increase) 2016/17: 76,977 Approved Lots

20,000 more lots registered in 2017/18 than in 2013/14

Approved Lots Received - Last 5 years
NES VLAT = Admin, Address, CLT, Parcel & Property


DELWP WUC and WUD road parcels

DELWP WUC water races
NES VLAT = Admin, Address, CLT, Parcel & Property

Who:
DELWP WUD: 42%
LGAs: 25%
DELWP WUC: 19%
DELWP Vicmap: 6%
Others: AV, Coliban Water, ESTA, MFB, South East Water, SV, Transport, VEC, Yarra Valley Water

Status @ 30/6/2018:
Change Accepted: 55%
With VLAT Maintainer: 42%

What:
Parcel: 76%
Load Forms: 12%
Address: 7%
CL Tenure: 4%
Property: 1%
Admin: <1%
NES VTT = Elevation, FoI, Hydro, Transport & Vegetation

1,109 submissions 2017/2018 (1,276 2016/2017)
NES VTT = Elevation, FoI, Hydro, Transport & Vegetation

Who:
Aboriginal Vic, Ambulance Vic, Coliban Water, CFA, DELWP, ESTA, LGAs, MW, PV, SV, Transport Vic, VicForests & WCMA

Where:
Wellington 15%
Mansfield 3%
Macedon Ranges 3%

LGAs = 60%

What:
Transport 81%
Fol 12%
Hydro 6%
CFA Maps 1%

Status:
Accepted 71%
Submitted 6%
Declined 4%

NES Topographic Notifications June 2017 to June 2018
Authoritative Sourced Data for VMFoI

Authoritative full file data sourced twice annually
- Supplemented with change information as it occurs.

**DJR:**
Prisons, prison complexes, justice services & law courts

**CFA:**
NSPs, fire stations, fire lookouts, coastguard sites, emergency control centres, refuges

**DET:**
Childcare centres, schools, special schools, school camps & education complexes

**PV:**
Camping grounds, picnic sites, lookouts
Custodial Sourced Data for VMFoI

Authoritative sourced data twice annual seed supplies
Data Improvement Projects
Projects Undertaken 2017/2018

- Property Improvement Quality Audit 2017/2018
- Vicmap Topo Data Verification Project
- CFA Check Maps Processing
- VTT Cross Border Data Incorporation
- DELWP Rivers Health Vicmap Hydro watercourse improvement
1. Establish the true aspatial match rates between Local Government Authorities Property and Rates bases and Vicmap Property and Vicmap Address (and Vicmap Transport) on an annual basis.

2. Provides a completeness measure of LGA data against Vicmap

3. Identifies areas of anomaly between the data sources and Vicmap

4. All 79 LGAs provided Property and Rates Bases (Thankyou!)

5. All comparisons were completed by May by Julie Jenner and Katie Rees with individual LGA reports distributed.

6. All LGAs have received their result tables.

7. No Council Reference Number (Crefno) matching was done this year.
PIQA 2017/18 Results: Propnum Match

98.57%
(98.64% in 2016)
PIQA 2017/18 Results: Address Match

Address Match

- Address
- Target

98.06%
(98.34%)
PIQA 2017/18 Results: Address/Prop Num Match

97.16% (96.69%)
PIQA 2017/2018 Results

PROPNUM

PIQA 2017/18 overall Propnum match rate was 98.57% *(Down 0.07% from 2016/17)*

<table>
<thead>
<tr>
<th>Match rate</th>
<th>2017-18</th>
<th>2016-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;98%</td>
<td>65</td>
<td>59</td>
</tr>
<tr>
<td>95-98%</td>
<td>11</td>
<td>17</td>
</tr>
<tr>
<td>&lt;95%</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

2400 records

Lowest 2017/18 LGA Propnum match rate is 91.58%

49 LGAs (29 Rural) Improved

1 LGAs match rate drop > 1%
PIQA 2017/2018 Results

ADDRESS

PIQA 2017/18 overall Address match rate was 98.08% (Down 0.13% from 2016/17)

<table>
<thead>
<tr>
<th>Match rate</th>
<th>2017-18</th>
<th>2016-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;98%</td>
<td>57</td>
<td>54</td>
</tr>
<tr>
<td>95-98%</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>&lt;95%</td>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

Lowest 2017/18 LGA Address match rate is 61.32%

51 LGAs (29 Rural) Improved

0 LGAs match rate drop > 1%

4400 records
ADDRESS / PROPNUM COMBINATION

Combined PIQA 2017/18 PIQA match rate match rate was 97.16% *(Up 0.38% from 2016/17)*

<table>
<thead>
<tr>
<th>Match rate</th>
<th>2017-18</th>
<th>2016-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;98%</td>
<td>40</td>
<td>32</td>
</tr>
<tr>
<td>95-98%</td>
<td>29</td>
<td>31</td>
</tr>
<tr>
<td>&lt;95%</td>
<td>10</td>
<td>16</td>
</tr>
</tbody>
</table>

Lowest 2017/18 LGA Address/Propnum combination match rate is 59.16%

55 LGAs (29 Rural) Improved

3 LGAs match rate drop > 1%

13000 records
Revised LGA Individual Reports

2. ADDRESS

Total records in rates: 5471
Number of PMA Addresses that exist in Vicmap Address (va): 5396 (98.6657%)
(Regardless of Propum match status)
Number of PMA Addresses not in va: 75
of which are standard PMA Addresses (includes house number) 58
Number of PMA Addresses with House_No populated: 3687 (67.0281%)
Number of PMA Addresses without House_No populated: 1804
Number of Duplicate PMA Addresses (Individual): 1705
(Where address string, road name, road type, road suffix and locality match)
Number of Duplicate PMA Addresses (Grouped): 332
Number of Secondary addresses in va: 12
Number of UNMAP Roadname records in va: 0
Number of Invalid va Address records that have a valid PMA Property Number that are linked to:
Code 6. Street names partially match:
Code 7. Street types do not match:
Code 8. No house number details in va:
Code 9. House number details are different:
Code 10. Locality is different for other reasons:
Total: 41

3. PROPUM/ADDRESS COMBINATION

Number of PMA records that have the same propum/address combos as vicmap: 5289 (96.6734%)
2017/2018 Findings
- All three categories saw LGA / Vicmap match rates slightly regress
- Many LGAs improved match rates (but only slightly)
- Clearer individual LGA reports were generated.
- Kennet River is now Kennett River in Colac-Otway P & R!

*This affected over 200 addresses*
Builds upon state wide investigations VMFoI 2010 – 2014

Mainly looking at data completeness, clangers and changes since the last investigation.

Utilises latest CIP imagery (Generally 2016 / 2017 & 2017 / 2018 flying seasons)

North West Ed 6 Investigation May - October 2017

South West Edition 6 investigation November 2017 - April 2018

North East Edition 6 investigation May - October 2018
South West Edition 6 Mapbook Trawl and Crawl
Stats for South West Map book extent:

<table>
<thead>
<tr>
<th>LGA Verification Project</th>
<th>2017/2018</th>
<th>2018/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Verification Project</strong></td>
<td><strong>Point</strong></td>
<td><strong>Line</strong></td>
</tr>
<tr>
<td>2017 Week 49</td>
<td>1,807</td>
<td>274</td>
</tr>
<tr>
<td>2017 Week 51</td>
<td>774</td>
<td>142</td>
</tr>
<tr>
<td>2018 Week 6</td>
<td>1,773</td>
<td>86</td>
</tr>
<tr>
<td>2018 Week 8</td>
<td>1,414</td>
<td>76</td>
</tr>
<tr>
<td>2018 Week 10</td>
<td>2,386</td>
<td>319</td>
</tr>
<tr>
<td>2018 Week 14</td>
<td>1,490</td>
<td>153</td>
</tr>
<tr>
<td>2018 Week 16</td>
<td>1,919</td>
<td>170</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>14,802</td>
<td>1,530</td>
</tr>
</tbody>
</table>

**4158 : Vicmap TEN: 2018 week 10**
- **IN_LANDMARK_AREA_POLYGON** 68 31
- **TR_ROAD** 725 564
- **TR_ROAD_INFRASTRUCTURE** 411 299

**4147 : Moyne LGA Road Centrelines**
- **AD_LGA_AREA_POLYGON** 4 4
- **AD_LOCALITY_AREA_POLYGON** 82 82
- **TR_ROAD** 2454 2265
- **TR_ROAD_INFRASTRUCTURE** 1191 1064
Vicmap Data Examples

Delete building point but cadastral issues!
Delete building points and road
Add and delete building points
Road Realignment
Named road in someone’s property & road extension
Add access road to wind turbines
Add tennis courts and clubhouse
Add equestrian facility with recreation reserve
Big sheds!
CFA Brigade Check Maps SW ED6

72 Check Maps Received at DELWP
1:100k : 47
1:50k : 8
1:20k : 17
From 27 CFA Brigades & 2 PV Rangers
Check Map Feedback

- Road extents & Surface type
- FoI edits – feature creation & relocation
- FoI Deletions
- Corrections to reserves
- Road removals
- Road Classifications
- Feature names
- Road Classifications
- Feature names
North East Map Book Extent:

Investigate the following imagery for topo edits:

- Campaspe LGA - New 2017 CIP imagery @20cm replaces previous 2006 imagery

- 107 townships covered by 2017 imagery including Wodonga LGA.

- CIP imagery to Vicmap data comparison, edit identification and edit processing needs to be completed by 28/10/2018 for Spatial Vision availability.
North East Edition 6 Mapbook Verification Project
## Progress stats for North East Map Book Extent:

<table>
<thead>
<tr>
<th>Week</th>
<th>LGA</th>
<th>Point</th>
<th>Line</th>
<th>Poly</th>
<th>General</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018 Week 18 Apr-18</td>
<td>Campaspe LGA (Part 1)</td>
<td>719</td>
<td>107</td>
<td>249</td>
<td>738</td>
<td>1,064</td>
</tr>
<tr>
<td>2018 Week 20 May-18</td>
<td>Campaspe LGA (Part 2)</td>
<td>1,568</td>
<td>341</td>
<td>405</td>
<td>2,314</td>
<td>4,383</td>
</tr>
<tr>
<td>2018 Week 24 Jun-18</td>
<td>Moira LGA Towns</td>
<td>885</td>
<td>827</td>
<td>251</td>
<td>1,963</td>
<td>3,065</td>
</tr>
<tr>
<td>2018 Week 26 Jun-18</td>
<td>Towong LGA Towns, Banambra TP Imagery &amp; Banalla TP Imagery</td>
<td>552</td>
<td>125</td>
<td>94</td>
<td>771</td>
<td>1,488</td>
</tr>
<tr>
<td>2018 Week 28 Jul-18</td>
<td>Mansfield LGA Towns &amp; Wangaratta TP Imagery &amp; Strathbogie LGA Towns</td>
<td>552</td>
<td>128</td>
<td>144</td>
<td>824</td>
<td>1,524</td>
</tr>
<tr>
<td>2018</td>
<td>Alpine LGA Towns</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>Greater Shepparton LGA Towns</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>Wodonga LGA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>Strathbogie LGA Towns</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>Mitchell LGA Towns</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>Murrundindi LGA Towns</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>Indigo LGA Towns</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

| **Total** | **4,606** | **1,095** | **1,134** | **3,276** | **10,240** |

**Imagery Used for LGA Trawl**: Create Retire

- **Transport**
- **2972 Created**
- **2705 Retired**

17/07/2018
### Progress stats for North East Map Book Extent:

<table>
<thead>
<tr>
<th>Data Verification Project</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Point</td>
</tr>
<tr>
<td>2018 Week 18 Apr-19</td>
<td>Campaspe LGA (Part 1)</td>
</tr>
<tr>
<td></td>
<td>Campaspe LGA (Part 2)</td>
</tr>
<tr>
<td>2018 Week 24 Jun-18</td>
<td>Moira LGA Towns</td>
</tr>
<tr>
<td>2018 Week 26 Jun-18</td>
<td>Tooronga LGA Towns, Banambra TP Imagery &amp; Bonella TP Imagery</td>
</tr>
<tr>
<td></td>
<td>Mansfield LGA Towns &amp; Wangaratta TP Imagery &amp; Strathbogie LGA Towns</td>
</tr>
<tr>
<td>2018 Week 28 Jul-18</td>
<td>Alpine LGA Towns</td>
</tr>
<tr>
<td></td>
<td>Greater Shepparton LGA</td>
</tr>
<tr>
<td></td>
<td>Wodonga LGA</td>
</tr>
<tr>
<td>2018 Strathbogie LGA Towns</td>
<td>1,413</td>
</tr>
<tr>
<td></td>
<td>Murrumundi LGA Towns</td>
</tr>
<tr>
<td></td>
<td>Indigo LGA Towns</td>
</tr>
</tbody>
</table>

**FOI – Building Points & Fol Polys**
- **1413 Created**
- **1690 Retired**

**Imagery Used for LGA Trawl**
- campaspe_2017dec21_atr_vls_20cm_mps05
- campaspe_2017dec21_atr_vls_20cm_mps55

**Create Retire**
- Create
- Retire

**4194 : Vicmap Ten: 2018 Week 20**
- **IN_BUILDING_AREA_POLYGON**
  - 195
  - 31

**4186 : Vicmap Ten: 2018 Week 18**
- **AD_LOCALITY_AREA_POLYGON**
  - 386
  - 141
- **IN_BUILDING_POINT**
  - 404
  - 666
- **IN_UTILITY_POINT**
  - 75
  - 75
- **TR_ROAD**
  - 721
  - 663
- **TR_ROAD_INFRASTRUCTURE**
  - 468
  - 394

**4186 : Vicmap Ten: 2018 Week 18**
- **HY_WATERCOURSE**
  - 141
  - 53
- **HY_WATER_AREA_POLYGON**
  - 168
  - 26

**4194 : Vicmap Ten: 2018 Week 20**
- **AD_LOCALITY_AREA_POLYGON**
  - 16
  - 16
- **HY_WATER_POINT**
  - 672
  - 165
- **IN_BUILDING_POINT**
  - 514
  - 503
- **IN_LANDMARK_AREA_POLYGON**
  - 118
  - 49
- **IN_UTILITY_POINT**
  - 6
  - 6
- **PL_PLACE_AREA_POLYGON**
  - 10
  - 10
- **TR_ROAD**
  - 1,173
  - 1,048
- **TR_ROAD_INFRASTRUCTURE**
  - 870
  - 600

SV Supply Version 28/10/2018
### South West Edition 6 Map Book Verification Project

#### Progress stats for North East Map Book Extent:

<table>
<thead>
<tr>
<th>Week</th>
<th>LGA</th>
<th>Point</th>
<th>Line</th>
<th>Poly</th>
<th>General</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 18</td>
<td>Campaspe LGA (Part 1)</td>
<td>779</td>
<td>107</td>
<td>429</td>
<td>738</td>
<td>1,864</td>
</tr>
<tr>
<td>Week 20</td>
<td>Campaspe LGA (Part 2)</td>
<td>1,088</td>
<td>341</td>
<td>475</td>
<td>1,804</td>
<td>3,389</td>
</tr>
<tr>
<td>Week 24</td>
<td>Moira LGA Towns</td>
<td>885</td>
<td>827</td>
<td>251</td>
<td>2,957</td>
<td>7,570</td>
</tr>
<tr>
<td>Week 26</td>
<td>Towing LGA Towns, Banambra TP Imagery</td>
<td>552</td>
<td>125</td>
<td>94</td>
<td>780</td>
<td>1,943</td>
</tr>
<tr>
<td></td>
<td>Mansfield LGA Towns &amp; Wangaratta TP Imagery</td>
<td>552</td>
<td>128</td>
<td>144</td>
<td>824</td>
<td>2,346</td>
</tr>
<tr>
<td>Week 28</td>
<td>Alpine LGA Towns</td>
<td></td>
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<tr>
<td></td>
<td>Greater Shepparton LGA Towns</td>
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</tr>
<tr>
<td></td>
<td>Wodonga LGA</td>
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<td></td>
<td>Strathbogie LGA Towns</td>
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<tr>
<td></td>
<td>Mitchell LGA Towns</td>
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<td>Murrundindi LGA Towns</td>
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<tr>
<td></td>
<td>Indigo LGA Towns</td>
<td></td>
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</tr>
</tbody>
</table>

**Hydro features**
- **1237 Created**
- **385 Retired**

**Imagery Used for LGA Trawl**
- **4194: Vicmap Ten: 2018 week 20**
  - IN_BUILDING_AREA_POLYGON: 195, 31
  - HY_WATER_POLYGON: 256, 141
  - HY_WATER_POINT: 404, 606
  - HY_WATER_AREA_POLYGON: 141, 53
  - HY_WATER_AREA_POLYGON: 168, 26

**SV Supply Version 28/10/2018**
Some Examples

- Missing Go-Cart Tracks
- Building Point in Dam
- Removal of Stream Alignment
- Removal of Another Channel Alignment
- Complex Site Upgrade
16 Check Maps Received at DELWP
1:100k : 3
1:50k : 3
1:20k : 12
From 4 CFA Brigades, D22 HQ & D23 HQ
Cross Border Data Incorporation into VTT

VTT Admin: Topo Versions of Locality and LGA
Vicmap Transport
Vicmap Fol
Vicmap Hydro
Rivers Health data incorporation into Vicmap Hydro

DELWP Rivers Health Project:
Lidar from 2009/10
Metrics generated 2010 – 2014
2015 Project to improve Vicmap Hydro watercourses
Rivers Health data incorporation into Vicmap Hydro
The Result

@2015 chainsaw digitising

River tributaries have no change

@2018 River depicted by top of bank and double sided
Next Steps
2018/19 Roadmap

- **Digital Cadastral Modernisation (DCM)**
  - Determining impacts DCM has on all Vicmap products & flow on effects to stakeholders
  - Preparing for the integration of the data

- **Victorian Grants Commission Local Roads Pilot**
  - Respond to this projects requirements of Vicmap Transport
    - Changing Transport model to incorporate these changes
    - Populate Road Maintenance Table
Vicmap Viewer (Vicmap Topographic Maps Application)

- Mobile application for discovering and purchasing Vicmap Topographic Maps

- Discover maps is colour coded with the scale identified

- A number of search options available
  - Location, Locality, Street name, Address, Map sheet name, Map sheet number

- Due for Release Late September / Early October
Data Improvements

- Data Verification VTT NE Ed 6 SV Mapbook extent completion
- Vicmap Vegetation Plantation 2018 Refresh
- Mountain Bike Trails population and data modelling
Data Developments

- Complex Site Representation & Maintenance

- Complex site plan has named internal road network and all sites addressed to these roads.

- Vicmap has 67 addresses stacked at the centroid addressed as units to Webster Street.
In Conclusion

Vicmap Maintenance 2017 / 2018
• 2017/2018 record number of subdivision registrations
• Record number of NES Parcel submissions

Vicmap Improvement Projects
• 2017/18 PIQA
• Data Verification VTT SW Ed 6 SV Mapbook extent
• VMFoI Six Monthly data update
• Cross Border VTT update
• Rivers Alignment Project (Rivers Health)

Vicmap Future Projects
• DCM preparation
• VGC Pilot project data accommodation
• Vicmap Viewer Launch
• Data Improvement Projects
Thankyou for listening.