



Western Cape
Government

CAPE FARM MAPPER

an integrated spatial portal

Wow day

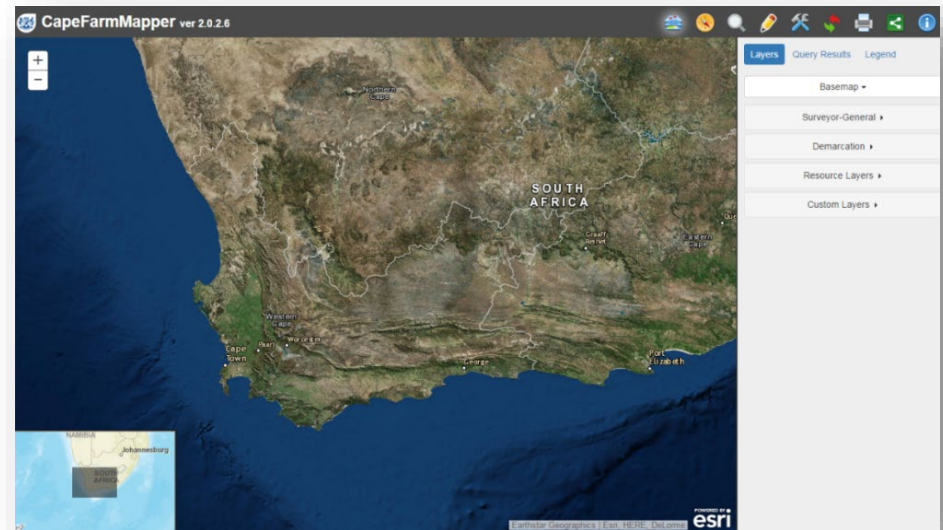
10 November 2020

CapeFarmMapper - an integrated spatial portal

CapeFarmMapper is an online mapping tool designed to assist with spatial information queries and decision making in the fields of agriculture and environmental management.

The application provides functionality to:

- view and query spatial layers from the WCDoA spatial database
- search the Western Cape Surveyor-General farm and even cadastre database
- draw and measure features on the map
- access geoprocessing services and tools
- import and export geographical data
- compose and export digital maps



Why was CapeFarmMapper developed?

Spatial information and technology has become indispensable across a wide range of spheres and applications in agriculture & rural development.

General GIS Applications in Agriculture

- GIS infrastructure and internal user base support
- Mapping of agricultural footprint and land use
- Farm and regional planning support
- Crop and vegetation monitoring
- Drought monitoring and analysis
- Crop Suitability/Agronomic/Resource modelling
- Land Reform & development planning

CapeFarmMapper assist with decision making for:

- Agriculture practices
- Environmental management
- Farm planning
- Land evaluation
- Land reform

New and novel aspects to CapeFarmMapper

CapeFarmMapper version 1 was showcased at the WOW event in May 2015.

CapeFarmMapper version 2 has many improvements from the first version in terms of

- HTML framework used for the user interface,
- a new mapping API,
- better layer control,
- individual graphic manipulation,
- labelling,
- more data layers (Base Maps & Resource Layers)
- and additional geoprocessing tools.

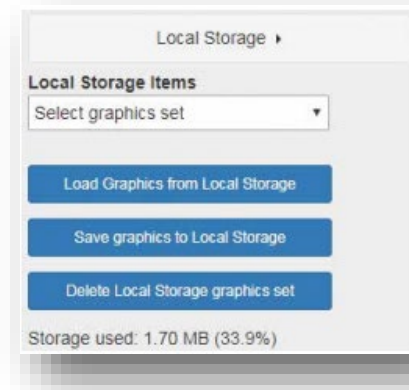
The application is compatible with all modern browsers e.g. Google Chrome, Firefox and Microsoft Edge.

New and novel aspects to CapeFarmMapper

Satellite base maps

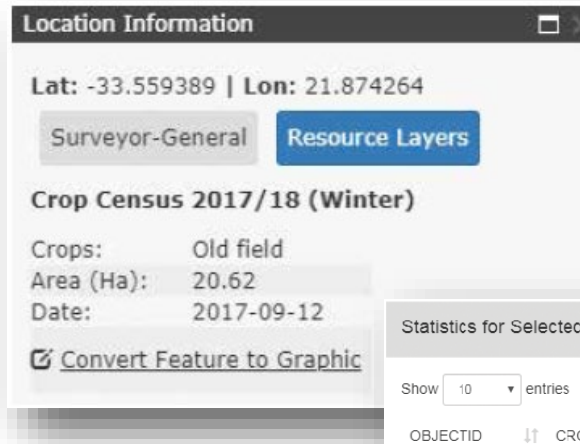
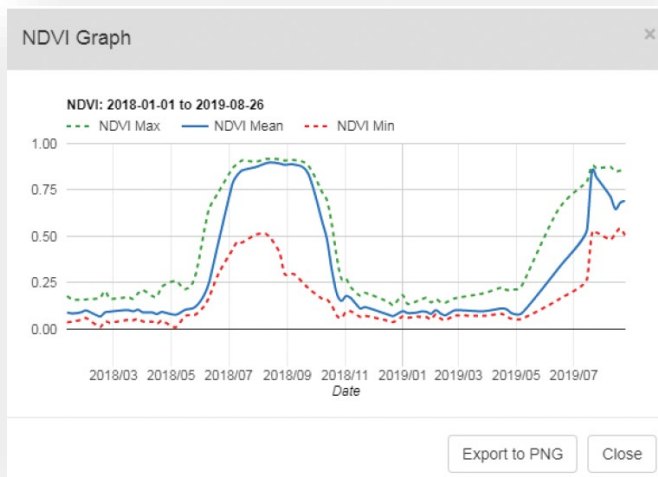


Local Storage



Better interaction with spatial features

Monitoring your field health



Location Information

Lat: -33.559389 | Lon: 21.874264

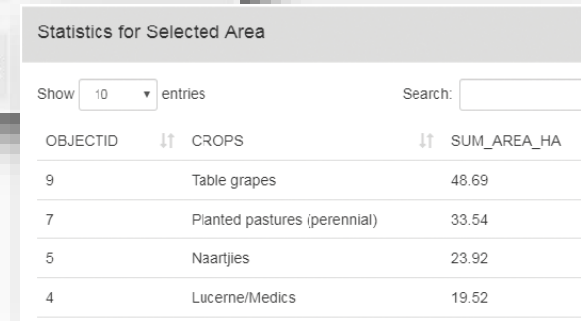
Surveyor-General Resource Layers

Crop Census 2017/18 (Winter)

Crops: Old field
Area (Ha): 20.62
Date: 2017-09-12

Convert Feature to Graphic

Zonal Statistics



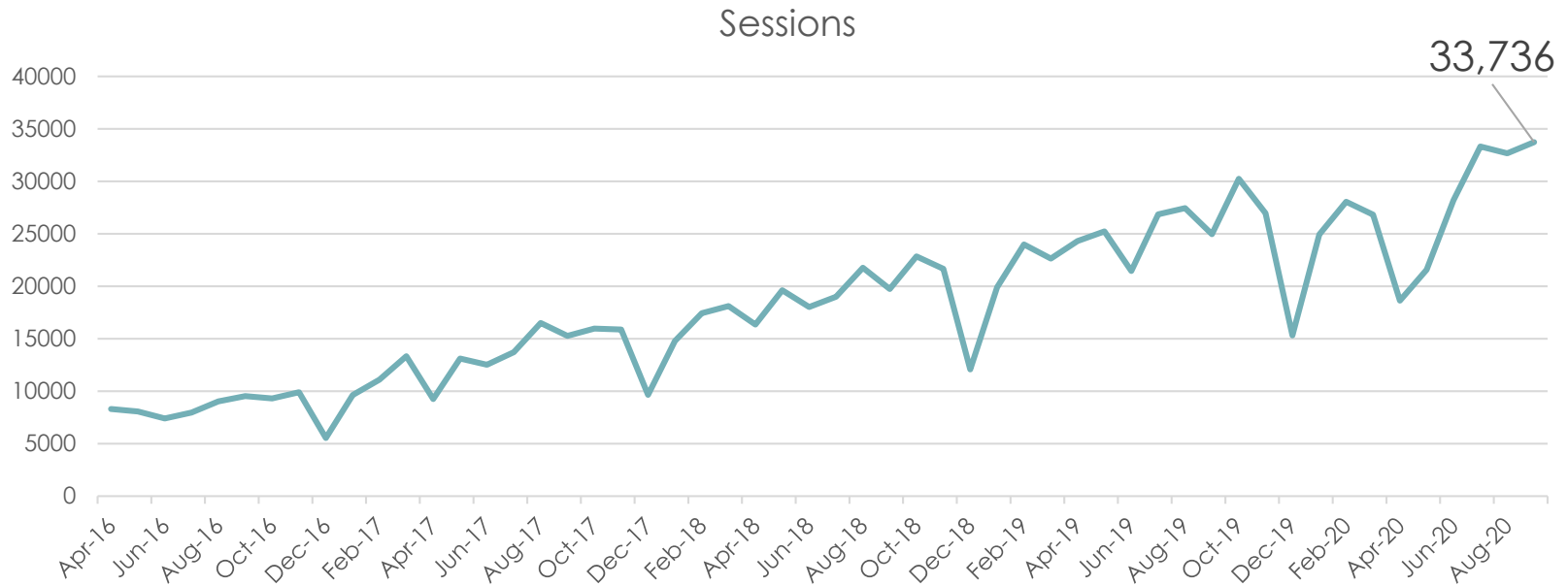
Statistics for Selected Area

Show 10 entries Search:

OBJECTID	CROPS	SUM_AREA_HA
9	Table grapes	48.69
7	Planted pastures (perennial)	33.54
5	Naartjies	23.92
4	Lucerne/Medics	19.52

Significant wins/impact of CapeFarmMapper

Usage per Month (April 2016 - September 2020)



April 2016

September 2020

Sessions	8,306	33,736
Users	2,802	9,601

Online Access

Direct link:

<https://gis.elsenburg.com/apps/cfm/>

Department of Agriculture Web site (Agri-Tools menu → CapeFarmMapper)

<https://www.elsenburg.com/>



For further reading, see

- *AgriProbe* Vol. 10 No. 3 of 2013, p. 4,
- *AgriProbe* Vol. 15 No. 1 of 2018, p. 44, and
- *AgriProbe* Vol. 16 No. 4 of 2019, p.50

<https://www.elsenburg.com/resource-library/agriprobe>

Thank you

Contact Us



Western Cape
Government

BETTER TOGETHER.

Francois Koegelenberg

Research and Technology Development

Tel: 021-808 5083

Fax: 021-808 5335

FrancoisK@elsenburg.com

www.westerncape.gov.za