Introduction

POS Tool provides information on the provision and location of public open space (POS) and the facilities and amenities provided within parks across the Perth and Peel regions of Western Australia through an interactive web mapping interface. The tool allows users two levels of access: simple search tools to identify and examine public open spaces and advanced functions which provide additional tools for researchers and planners.

- Simple search functions allow users to search for parks based on an address, search for parks by name and search for information on the distribution of POS and park amenities within a suburb or Local Government Area.

- Advanced functions (requiring registration), allow users to view summary statistics on POS provision and population level access within a user defined area (drawn on an interactive map or uploaded as a GIS layer) and scenario model the impact of changes in population size and structure or changes in POS provision.

Read this guide to learn about POS Tool and how to navigate through the website and use its functions.
Simple Search Functions

This section will lead you through POS Tools’ simple search functions which can be accessed by clicking ‘SEARCH’ from the home page:

- Search for parks based on an address - simply type in your home address and find parks near you;
- Search for parks by name - type in a park name to find the amenities and facilities provided in that park;
- Search for information on the distribution of POS and park amenities within a suburb or Local Government Area - just type in the name of the suburb or LGA.
Option 1: Address Search

After you have typed in the address for which you would like to find information on surrounding parks Click on the Search button and you will be directed to the following page. Next, simply select the park for which you would like to find more information.

In the map window you can zoom in and out and pan around the image as well as select additional map layers to display. In addition, simply click on a new park to find its associated information. These are common functions you will find on all map windows. However, in this map window you can also drag the address icon to a new location to search for parks surrounding a new location.
You can examine information on the facilities and amenities provided in the park you selected.
Option 2: Park Name Search

After you have typed in the name of the park for which you would like to find more information Click on the Search button and you will be directed to the following page where you can examine information on the facilities and amenities provided in the park you searched.

Option 3: Suburb / LGA Search

After you have typed in the Suburb or LGA name for which you would like to find more information Click on the Search button and you will be directed to the following page. The information provided includes:

- **Count** of the different types of POS (polygons) present within the summarised area by POS (i.e., parks, natural, residual green spaces and school grounds) and Park types;
- **Area (total)** of each POS and Park type within the selected administrative unit;
- **% Area** of each POS and Park type within the selected administrative unit;
- The proportion of the population within a certain distance (Catchment) of parks by park type (using our park type classification); and
The proportion of the population within a certain distance (Catchment) of parks by park type (using the Department of Sport and Recreation’s park type classification).

In addition, all of this information can be downloaded in an Excel spread sheet for use in reports of with additional data sources.

If you download the POS statistics for the administrative unit for which you have searched, you will be provided with the following information.
### Overview

- **General summary statistics by POS and park type**
- **Facilities by park type**

### Facilities by park type

- **The proportion of population (by age) within park catchments (by type)**
Advanced Functions

POs Tools’ Advanced functions allow you to:

- Define and create your own specific areas of interest to calculate POS summary data.
- Upload areas of interest in GIS shapefile format to calculate POS summary data.
- Test future scenarios such as the impact of population growth on current provision of parks and POS.

Step 1: Log in or Register

To access advanced functions users must first login or register if you are first time user.
To register you will need to provide the following information.

**Step 2: Select an advanced function**

Identify the approach you would like to take for defining the area for which the POS Tool calculates statistics. Within POS Tool, the user can draw their own area of interest in a map, upload a GIS shapefile or select an existing suburb or LGA.

The following page allows the user to select which approach they would like to take or navigate directly to the project management page if a user would like to access a project they have created previously.
Step 3: Name your project

This is important when you have more than one project on the go. By identifying a project name you can edit project parameters from the Project Management page (see Step 6). Enter your Project Name in the space provided and Click Add New Project.
Step 4: Define your area

Define the area for which you would like to generate POS and Park statistics for or scenario test the impact of changes in population structure on the provision of POS and park amenity.

a) Draw Your Own Area of Interest

To draw your own polygon first Click on the Create/Edit Region tab. Then, using your mouse, you draw an area on the map. Next, you can Stop Editing and Save Region before you generate statistics for the area or use the scenario modelling tool. Specific instructions are provided on the web page.

Instructions for drawing your own polygon of interest:
1. Zoom to area of interest on the map.
2. Click create/edit region.
3. Click the button to activate the drawing tool.
4. Draw a polygon around your area of interest – click left mouse button to the boundaries of your area of interest. (The total area must not exceed 500 hectares). Double click outside of the polygon (area) to finish.
5. If you make a mistake or you are not happy with your polygon:
   a) Click the stop-editing button – this will clear the display for you to start again; or
   b) Double click the polygon to activate (it will turn red) and then click the button and you will be able to edit the shape. Double click when finished.
6. When you are happy with your polygon hit the save region button.

b) Upload Your Own Area of Interest

To upload your own polygon first Click on the Upload Shapefile tab. Browse to the location of the shapefile on your computer and Click Save. The area of your shapfile will be displayed in the map window. Remember that a shapefile can only be uploaded if it is in a zip folder and it is projected to MGA GDA 94 zone 50 (UTM) or WGS84 (Lat/Long). Specific instructions are provided on the web page.
c) Select an Existing Suburb or LGA

Just as you are able to do in the Simple Search function, a user may select and existing Suburb or LGA to generate statistics or test future population and POS provision scenarios. Simply type in the name of the Suburb or LGA of your choice and then Click on the view stats tab to generate and view the POS statistics for that administrative area; or the calculator tab to go straight to the scenario calculator page.
Step 5: View Statistics

Once you have selected, uploaded or drawn you area of interest the user can view statistics or proceed to the scenario modelling tool.

As in the Simple Search, once you have selected View Statistics from one of the previous area definition pages you will be directed to the following page. The information provided includes:

- Count of the different types of POS (polygons) present within the summarised area by Park type;
- Area (total) of each POS and Park type within the selected administrative unit;
- % Area of each POS and Park type within the selected administrative unit;
- The proportion of the population within a certain distance (Catchment) of parks by park type (using our park type classification); and
- The proportion of the population within a certain distance (Catchment) of parks by park type (using the Department of Sport and Recreation’s park type classification).

In addition, all of this information can be downloaded in an Excel spread sheet for use in reports with additional data sources.
Step 6: Scenario Calculator

The Scenario Modelling page allows you to test how changes to the population structure of your area of interest effect the provision of POS. Alternatively, changes in the provision of POS can be examined in relations to the effects on population structure for an area of interest. The Altered Population column and Altered Area row allow the user to adjust the number of residents in a specific age bracket or the area of a specific park type respectively. If you Click on the Reset tab for either, the column of row will be repopulated with your area of interests base statistics.

Clicking on the Calculate Metrics tab will then apply the calculations populating the Scenario Modelling table. If you click the Save Altered Values tab the new values will be saved to your project. To download an Excel spreadsheet of your results simply Click on the Download Table tab. If you would like to save your results as a new project Click on the Save as new project tab. You will then be prompted to provide a name for the new project.
Step 6: Manage Projects Page

The Manage Projects page allows you to administer new projects and control existing projects.

To manage the area of interest for an existing project Click on the *Edit* tab in the *Project Region* column of the respective project.

To view the statistics for an existing project Click on the *Edit* tab in the *View Stats* column of the respective project.

To view the statistics for an existing project Click on the *Edit* tab in the *Scenario Modelling* column of the respective project.

To delete an existing project Click on the *Delete* tab for the respective project.

You can also add a new project from the Manage Projects page by Clicking on the *Add Project* tab. You will then be directed to select how you would like to define your area of interest (*Step 2*).
Manage Projects
Here you can access and edit projects you have created and saved as well as create new projects.

- To edit boundaries and area for an existing project – click **Edit** under the **Project Region** tab.
- To view summary statistics for an area of interest – click **View** under the **View Stats** tab.
- To access the scenario calculator to change population size and structure or POS provision within the project area – click **Edit** under the **Scenario Modelling** tab.

Click here to edit the area of interest of an existing project.
Click here to view the stats of an existing project.
Click here to delete an existing project.
Click here to edit the scenario model of an existing project.
Contact Information

If you have further questions or suggestions please feel free to contact us.

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