

Classification of Offences by Activity Type

- **What does this dashboard relate to?**

This dashboard provides an overview of the activities reported according to the case types that have been reported through the ECMS. The activity dashboard for DWS users looks similar to the compliance dashboard. However the compliance incidents and court cases have been summarised by the incident type and not by compliance. This gives an idea of what the main problems are in a specific area. If a large amount of pollution or water scarcity problems are reported that can give an idea of what issues need to be addressed. This dashboard may be rationalised to only report on the compliant and court verdict information not on the reported incidents. The information will be summarised per province in a table looking at the activity type numbers in each region. If a specific province is selected the statistics relating to that province will be shown.

- **What is the main purpose/s of the dashboard?**

The ECMS information reported in this dashboard will show activities reported according to the case types in each category.

- **Contacts details of person/s who championed this dashboard:**

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- **What type/s of questions does the information product aim to answer?**

The key information to report as part of these case management dashboard is as follows:

- The number of cases reported, how many are in various areas in the case enforcement process
- The numbers of the different type of cases reported in different catchment areas
- Level of compliance to case enforcement
- Infringements per sectorial category
- Cases in process in various administrative units

This dashboard specifically addresses the issue of compliance related to cases reported to the ECMS in South Africa.

- **Data / Information discussion**
- **What data is used?**

Data is provided from cases that have been registered and reported in the Enforcement Case Management System. This information is summarised to a Provincial scale.

<u>"Type"</u>	<u>Applicable Section</u>	<u>Full Description</u>
Pollution	Section 19	Pollution
Reported Incidence	Section 20	Emergency Incidence
Water Use Activities		
Taking Water	Section 21 (a)	taking water from a water resource
Storing Water	Section 21 (b)	Storing Water
Flow Diversion	Section 21 (c)	impeding or diverting the flow of water in a watercourse;
Stream Flow Reduction	Section 21 (d)	engaging in a stream flow reduction activity contemplated in section 36;
Controlled Activity	Section 21 (e)	engaging in a controlled activity identified as such in section 37(1) or declared under section 38(1);
Waste Discharge	Section 21 (f)	discharging waste or water containing waste into a water resource through a pipe, canal, sewer, sea outfall or other conduit
Detrimental Water	Section 21 (g)	disposing of waste in a manner which may detrimentally impact on a water resource;
Heated Water	Section 21 (h)	disposing in any manner of water which contains waste from, or which has been heated in, any industrial or power generation process;
Water Course Impact	Section 21 (i)	altering the bed, banks, course or characteristics of a watercourse;
Dewatering	Section 21 (j)	removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people
Recreational	Section 21 (k)	using water for recreational purposes

- **Which stations are included in this dashboard?**

No stations are included in the dashboard but individual point specific information is obtained from the ECMS. This information is summarised to a provincial level.

- **How is data extracted and what is the source.**

The data is exported from the ECMS system which is a SQL database through an extraction script which provides the individual relevant case information to the NIWIS system where it is summarised to a Province and National level.

- **Data Processing in NIWIS.**

Data processing involves some spatial aggregation to a Provincial and National level. Percentage information is derived and reported in a pie chart. Time averaging and summarisation is also done where specific information is aggregated to a yearly level.

- **Key assumptions made.**

- All information on incidents is reported into the ECMS.
- Operators in the ECMS will keep the information up to date on a regular basis.
- The majority of cases are captured with specific GIS co-ordinates to make spatial summaries relevant and accurate.

- **Links to other sources of related information.**

Some links may be important when relating this information to potential problem areas identified in specific areas of the country. Trends relating to incident reporting may provide an indication of a more endemic problems developing.

- **Are there any limitations / cautions related to using this information?**

Yes, please refer to the below:

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