

Heavy Vehicle Compliance Snapshot

Roads and Maritime Services | June 2019



Introduction

Roads and Maritime Services aims to improve road safety for the heavy vehicle industry and the broader community through effective regulatory programs and high-quality compliance, enforcement and adjudication programs and systems.

This update summaries key statistics and trends of the heavy vehicle compliance programs based on intercepts and notices issued by Roads and Maritime compliance officers as part of enforcement programs.

The 2019 data included in this update is for Quarter 2 April to June 2019.



Key Findings – Quarter 2, 2019

This quarter experienced the highest compliance rate in the last five quarters (88.5%) with 88,421 vehicles inspected, excluding inspections and notices issued through the Heavy Vehicle Inspection Scheme.



Vehicle units inspected
88,421



Notices to vehicle units
10,136



Compliance rate
88.5%

Note: These figures exclude inspections and notices issued through the Heavy Vehicle Inspection Scheme (HVIS).

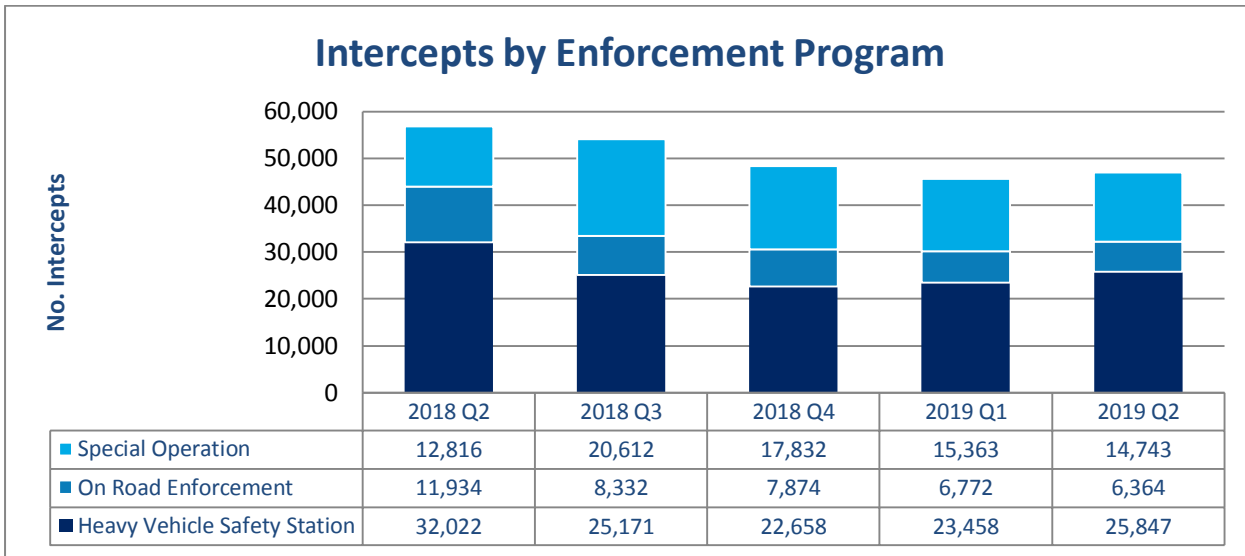
This report summaries key statistics and trends of heavy vehicle compliance programs based on intercepts and notices issued by RMS enforcement officers as part of enforcement programs.

- 46,954 vehicle combinations were intercepted through Special Operations (14,743), On Road Enforcement (6,364) and Heavy Vehicle Safety Stations (25,847).
- 88,421 vehicle units inspected issuing a total of 12,749 notices to 10,136 vehicle units, excluding inspections and notices issued through the Heavy Vehicle Inspection Scheme (HVIS).
- 8,003 defect notices issued during enforcement programs including Heavy Vehicle Safety Stations, On-Road Enforcement and Special Operations:
 - 5,460 (68.2%) minor defect
 - 1,558 (19.5%) formal warning defect
 - 936 (11.7%) major defect
 - 49 (0.6%) major grounded defects
- 11,368 defect notices were issued through the Heavy Vehicle Inspection Scheme:
 - 8,641 (76.0%) minor defect
 - 1,738 (15.3%) formal warning defect
 - 965 (8.5%) major defect
 - 24 (0.2%) major grounded defects

Intercepts

Roads and Maritime Enforcement Operations inspectors perform random and targeted, intercepts and inspections as part of on-road enforcement action, Heavy Vehicle Safety Station (HVSS) inspections, targeted special operations.

The numbers of vehicle combinations intercepted by enforcement program.

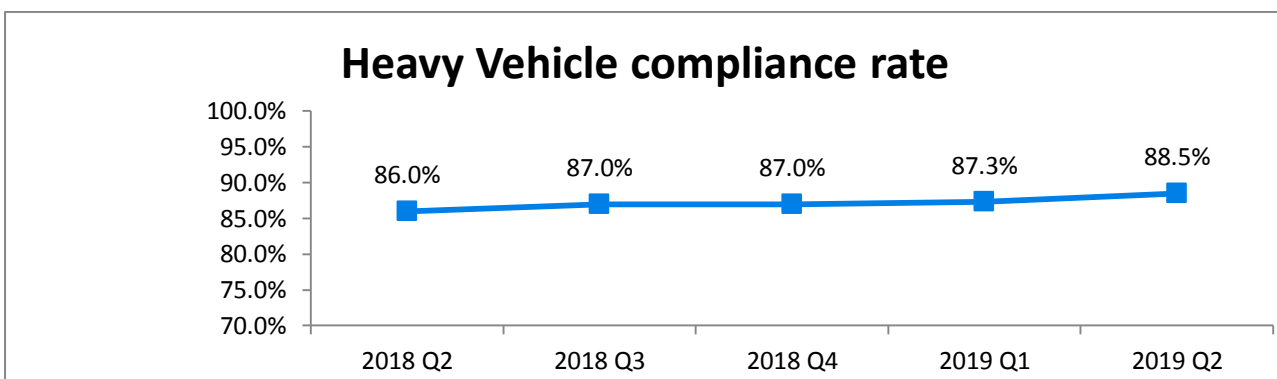


Note: intercepts are unscheduled inspections of a vehicle at Heavy Vehicle Safety Station, On-Road Enforcement or Special Operation.

Compliance performance

The percentage of vehicles issued one or more notices (defects, breaches, directions, warnings and penalty infringement notices) across the enforcement programs is an indicator of overall compliance performance. This excludes notices issued under the Heavy Vehicle Inspection Scheme as part of the registration process.

The heavy vehicle compliance rate of 88.5 per cent in 2019 Quarter 2 has the highest quarterly compliance rate over the last 5 quarters.



	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2
Vehicle units Inspected	104,774	99,490	89,665	83,659	88,421
Notice to vehicle units	14,675	12,941	11,699	10,624	10,136
Total notices	18,748	16,365	14,706	13,233	12,749
Compliance Rate	86.0%	87.0%	87.0%	87.3%	88.5%

Q1: January to March, Q2: April to June, Q3: July to September, Q4: October to December

Compliance by enforcement program

Enforcement Operations provide several frontline services delivered by Enforcement Operations Inspectors:

Heavy vehicle inspection scheme (HVIS):

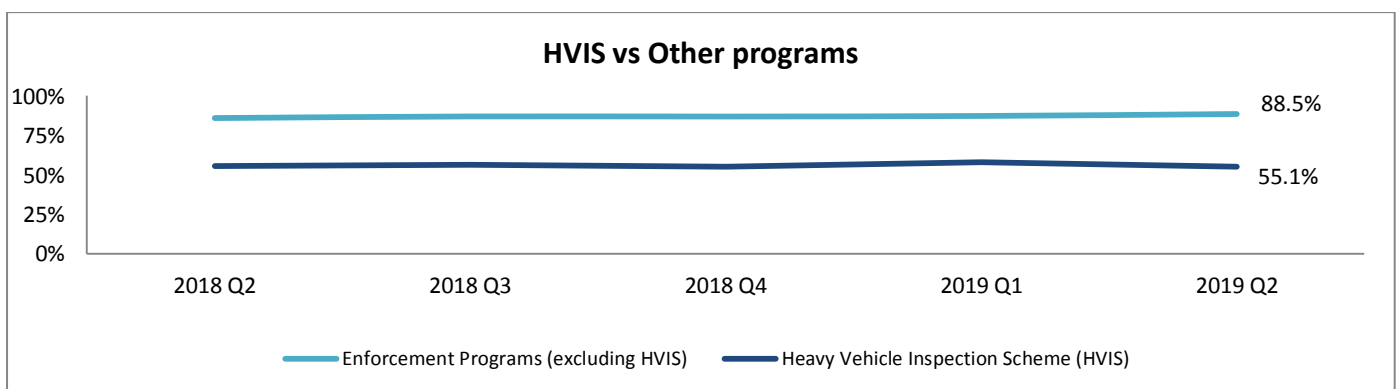
- Detailed inspections of heavy vehicles for roadworthiness and vehicle standards for registration renewal.

Enforcement Programs (excluding HVIS):

- Monitoring fatigue management.
- Checking for valid registration and driver licences, outstanding defects, permit compliance and overloading of vehicles.
- Checking to ensure relevant load restraint guidelines have been followed.
- Performing detailed mechanical, steering and suspension inspections.

The compliance rate of vehicles inspected at Heavy Vehicle Inspection Scheme (HVIS) is lower compared to other enforcement programs because the vehicle inspection for roadworthiness and registration is more comprehensive than inspection at a Heavy Vehicle Safety Station. The 2019 Q2 compliance rate (88.5%) has improved by 1.2 per cent over the previous quarter 2019 Q1 compliance rate (87.3%).

Compliance and enforcement program inspections by year						
Program		2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2
Enforcement Programs (excluding HVIS)	Intercepts	57,022	54,411	48,600	45,785	47,121
	Vehicle units Inspected	104,774	99,490	89,665	83,659	88,421
	Notice to vehicle units	14,675	12,941	11,699	10,624	10,136
	Total notices	18,748	16,365	14,706	13,233	12,749
	Compliance Rate	86.0%	87.0%	87.0%	87.3%	88.5%
Heavy Vehicle Inspection Scheme (HVIS)	Intercepts	24,246	28,452	23,017	25,082	24,237
	Vehicle units Inspected	24,437	28,584	23,111	25,148	24,387
	Notice to vehicle units	10,830	12,431	10,340	10,608	10,953
	Total notices	11,236	12,887	10,747	11,003	11,419
	Compliance Rate	55.7%	56.5%	55.3%	57.8%	55.1%



Compliance by the state registration (Heavy Vehicle Safety Station - HVSS)

The heavy vehicle compliance by the state of registration for five quarters. NSW register heavy vehicles have a consistent compliance rate over the last 5 quarters. Queensland registered vehicles have seen the highest compliance rate this quarter at 91%.

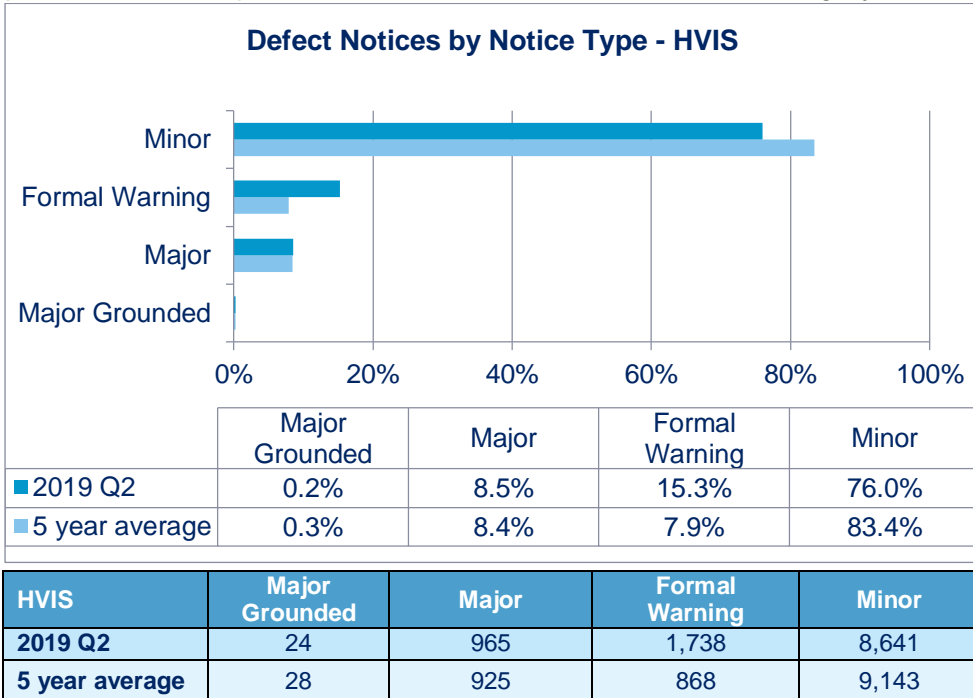
Compliance by State Registration - HVSS						
State		2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2
NSW	Vehicle units Inspected	38,609	30,790	28,361	29,594	32,132
	Notice to vehicle units	4,388	3,069	3,119	3,013	3,107
	Major & Major Grounded Defects Notice	346	250	271	281	275
	Vehicle Compliance rate (Major & Major Grounded Defects)	99.1%	99.2%	99.0%	99.1%	99.1%
	Compliance Rate	88.6%	90.0%	89.0%	89.8%	90.3%
VIC	Vehicle units Inspected	10,963	6,559	5,857	5,998	7,149
	Notice to vehicle units	1,427	767	796	729	840
	Major & Major Grounded Defects Notice	101	67	73	68	79
	Vehicle Compliance rate (Major & Major Grounded Defects)	99.1%	99.0%	98.8%	98.9%	98.9%
	Compliance Rate	87.0%	88.3%	86.4%	87.8%	88.3%
QLD	Vehicle units Inspected	9,834	7,577	5,857	6,121	7,141
	Notice to vehicle units	1,000	701	598	623	643
	Major & Major Grounded Defects Notice	127	67	84	76	91
	Vehicle Compliance rate (Major & Major Grounded Defects)	98.7%	99.1%	98.6%	98.8%	98.7%
	Compliance Rate	89.8%	90.7%	89.8%	89.8%	91.0%
Other	Vehicle units Inspected	2,337	1,504	1,487	1,444	1,615
	Notice to vehicle units	261	179	185	155	201
	Major & Major Grounded Defects Notice	24	10	22	15	25
	Vehicle Compliance rate (Major & Major Grounded Defects)	99.0%	99.3%	98.5%	99.0%	98.5%
	Compliance Rate	88.8%	88.1%	87.6%	89.3%	87.6%

Other State includes - ACT, NT, SA, WA, TAS & Commonwealth plates.

Roadworthiness

Heavy Vehicle Inspection Scheme (HVIS):

Roads and Maritime Services routinely inspect certain heavy vehicles as part of the NSW registration process. Over 99 per cent of the notices falls under notice category 'defects'.



Heavy Vehicle Inspection Scheme:

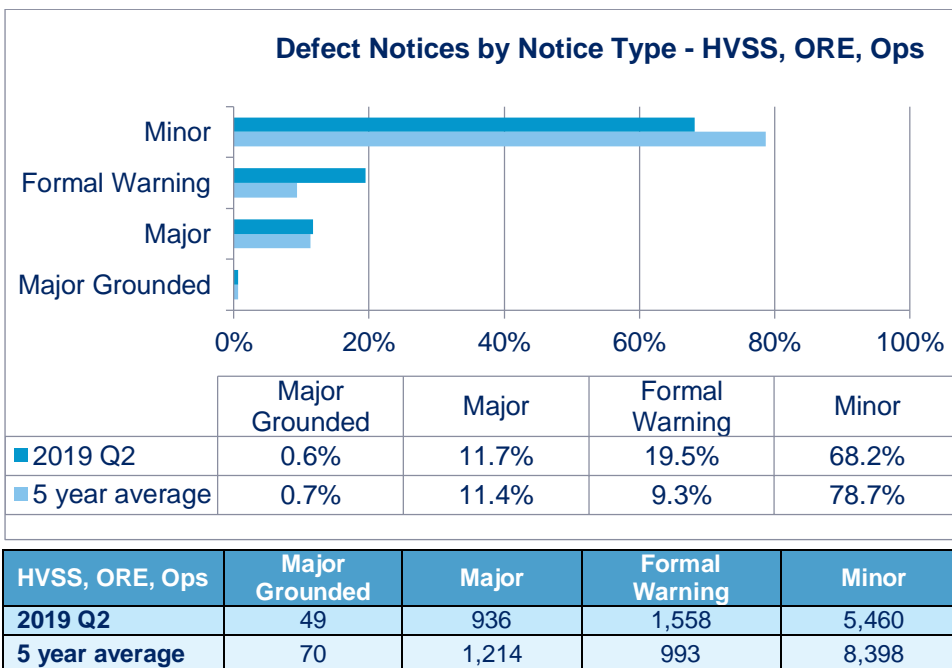
In the year 2019 Quarter 2, total defect notices through HVIS are 3.6 per cent (404) more than the five-year average.

The proportion of defect notices have reduced by 7.4 per cent and 0.1 per cent respectively for minor and major grounded defects in 2019 quarter 2 compare to the previous five-year average.

The proportion of defects that are formal warnings is 7.4 per cent greater.

Enforcement programs (HVSS, ORE, Ops):

Unscheduled intercepts are conducted as part of enforcement programs consisting of Heavy Vehicle Safety Stations (HVSS), On Road Enforcement (ORE) and Special Operations (Ops).



Notices by Defect notice types:

In 2019 Quarter 2, the total defect notices from enforcement programs are 33.4 per cent (2,672) less than the 5 year average.

The proportion of defect notices have reduced by 10.5 per cent and 0.1 per cent respectively for minor and major grounded defects in 2019 Q2 compare to the previous 5 year average.

The proportion of defects that are formal warnings is 10.2 per cent greater.

Five year average: from July 2014 to June 2019

2019 Q2: from April 2019 to June 2019

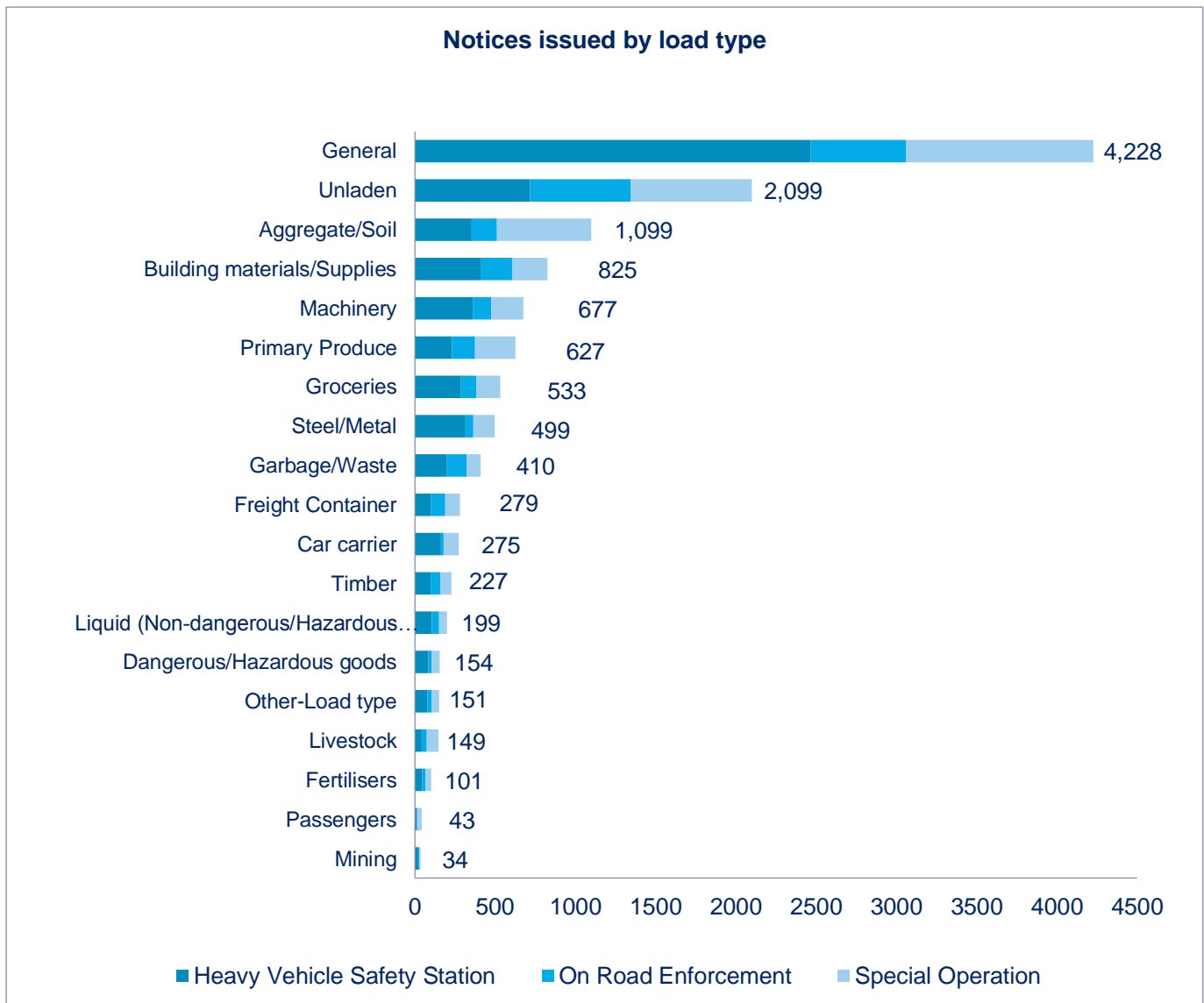
Adding percentage or average results may give a rounding error of ±0.1% or ±1 on the total.

Industry load type

During intercepts and when a notice is issued, the heavy vehicle load is recorded. Load type is an indicator for the industry the heavy vehicle is engaged with.

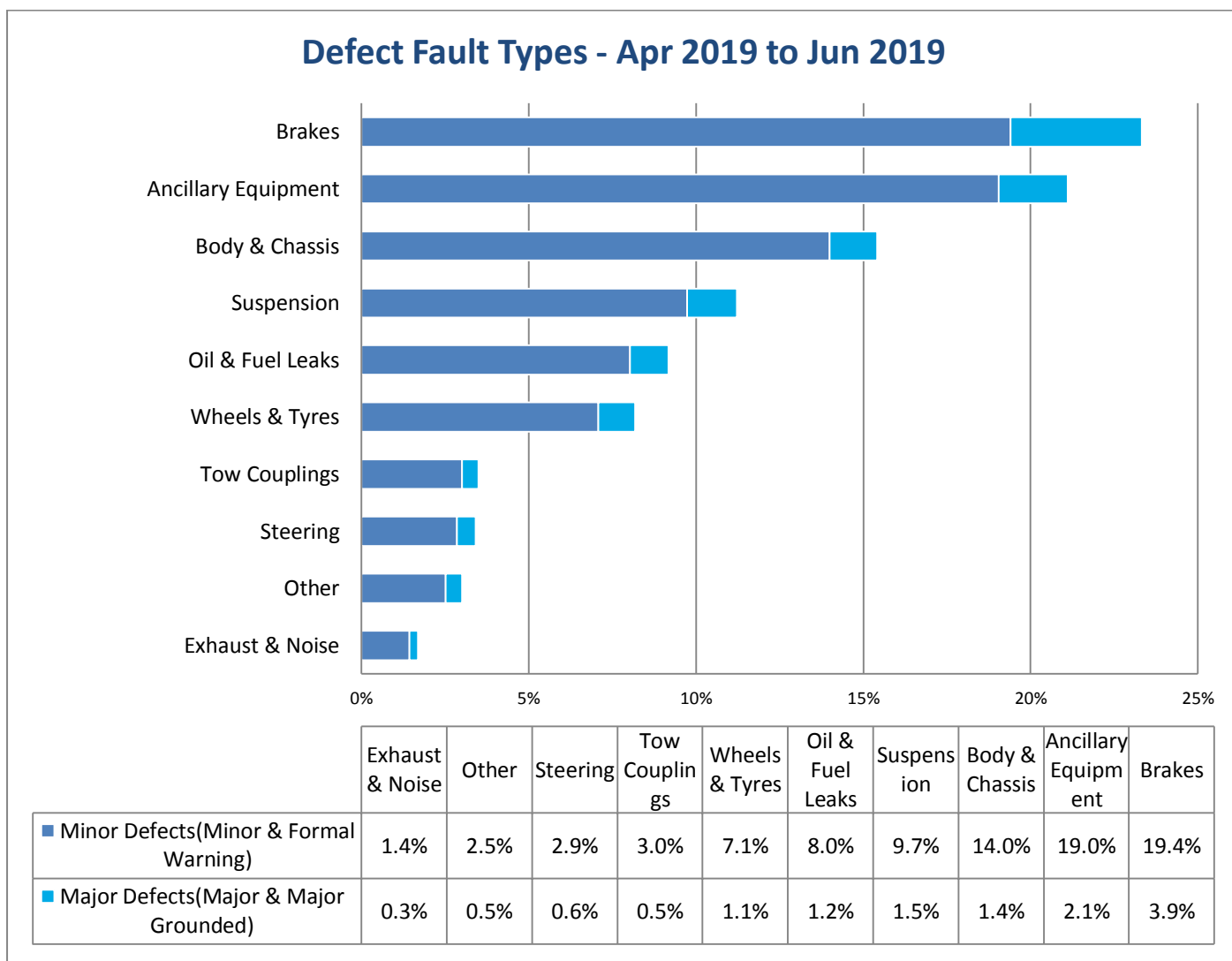
Notice issued by load type includes enforcement programs Heavy Vehicle Safety Stations (HVSS), On Road Enforcement (ORE) and Special Operations (Ops).

Based on load type recorded during intercepts in 2019 Q2, heavy vehicles carrying aggregate/soil are attracting the most notices in terms of load, closely followed by building materials/supplies, machinery and Primary Produce.



Defect fault types

Analysis of defect fault types identified during inspections and intercepts indicates that brakes continue to be the most common defect type.

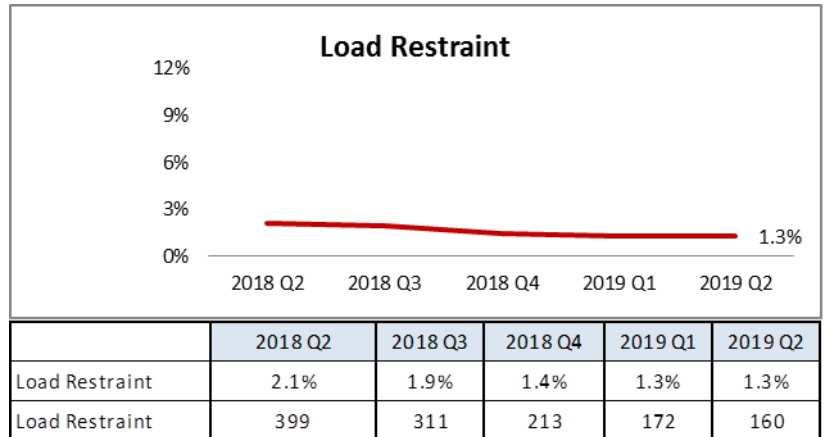


Notices by offence category

The below three notice category types account for an average of over 17% per cent of all notices issued over the last five quarters from April 2018 to June 2019 excluding Heavy Vehicle Inspection Scheme (HVIS).

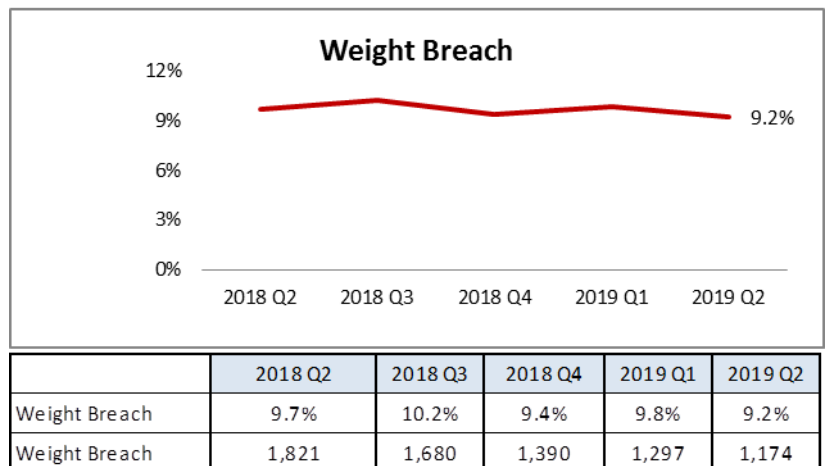
160 notices were issued for a load restraint breach, constituting 1.3 per cent of the total 12,792 Offence /defect notices issued in 2019 Q2.

The number of load restraint offence notices has decreased gradually over the last five quarters from 399 in 2018 quarter 2 to 160 in 2019 quarter 2.



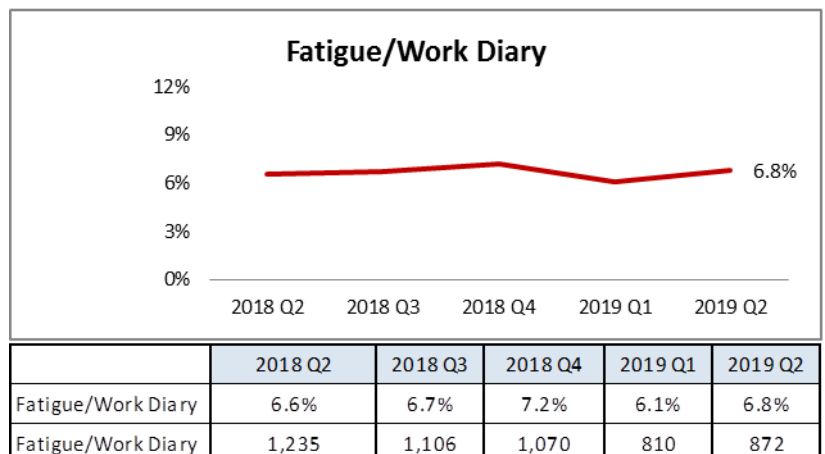
1,174 notices were issued for weight breaches, constituting 9.2 per cent of the total 12,792 Offence /defect notices issued in 2019 Q2.

The number of weight breach offence notices has decreased gradually over the last five quarters from 1,821 in quarter 2, 2018 to 1,174 in quarter 2, 2019.



872 notices were issued for Fatigue/Work Diary breaches, constituting 6.8 per cent of the total 12,792 Offence /defect notices issued in 2019 Q2.

The number of fatigue/work diary offence notices has decreased gradually over the last five quarters from 1,235 in quarter 2 2018 to 872 in quarter 2, 2019.

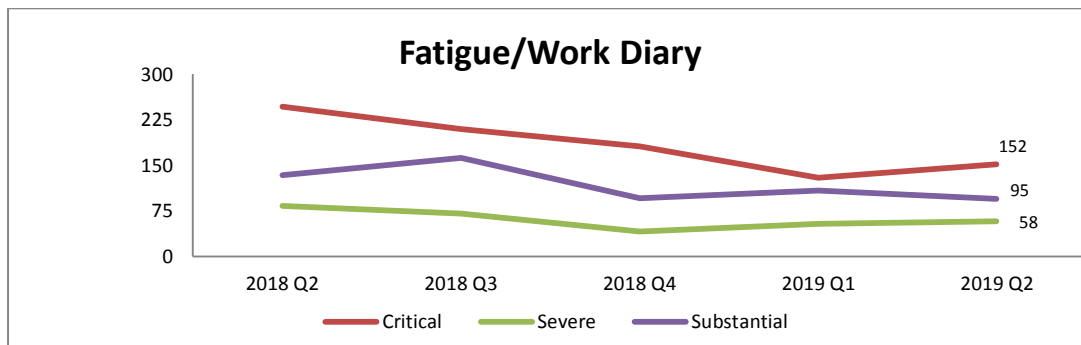


*Note: One notice can be issued with multiple offence categories (e.g. breach, load restraint and fatigue) meaning that the notices by offence/defect category (12,792) exceeds total notices issued (12,749) in 2019 Q2.
2019 Q2: data includes from April 2019 to June 2019.*

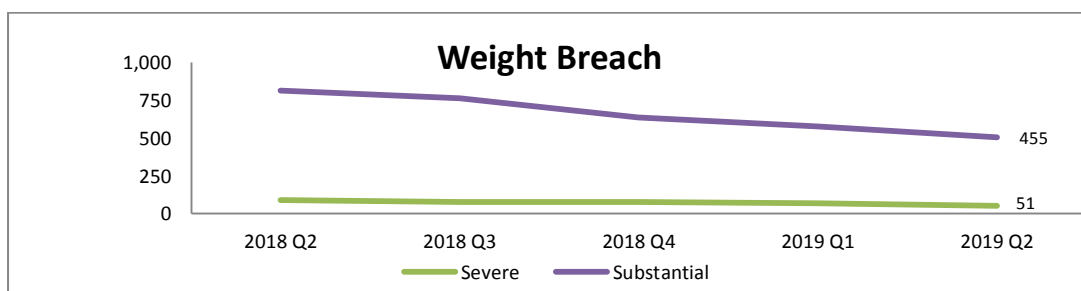
Offence category by severity

Total weight breach and load restraint offence notices have decreased respectively by 8 per cent, and 7 per cent in 2019 quarter 2 compared to the previous quarter.

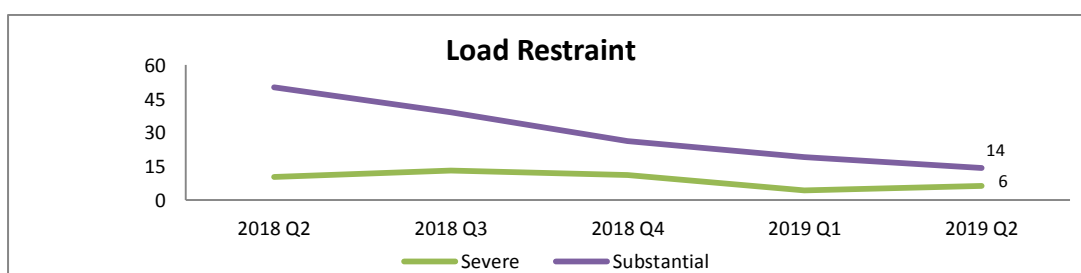
However, total fatigue notices in 2019 quarter 2 increased by 7 per cent compared to the previous quarter.



Severity	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2
Critical	247	210	181	129	152
Severe	83	70	41	53	58
Substantial	134	162	96	108	95
Minor	320	290	311	215	245
Undefined	497	424	474	337	352



Severity	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2
Severe	93	80	80	69	51
Substantial	722	684	556	509	455
Minor	1,161	1,045	871	807	762
Undefined	108	105	91	74	68



Severity	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2
Severe	10	13	11	4	6
Substantial	50	39	26	19	14
Minor	202	174	114	90	80
Undefined	137	85	62	59	60

*Note: an offence category can be issued with more than one severity, e.g. critical, severe or minor.

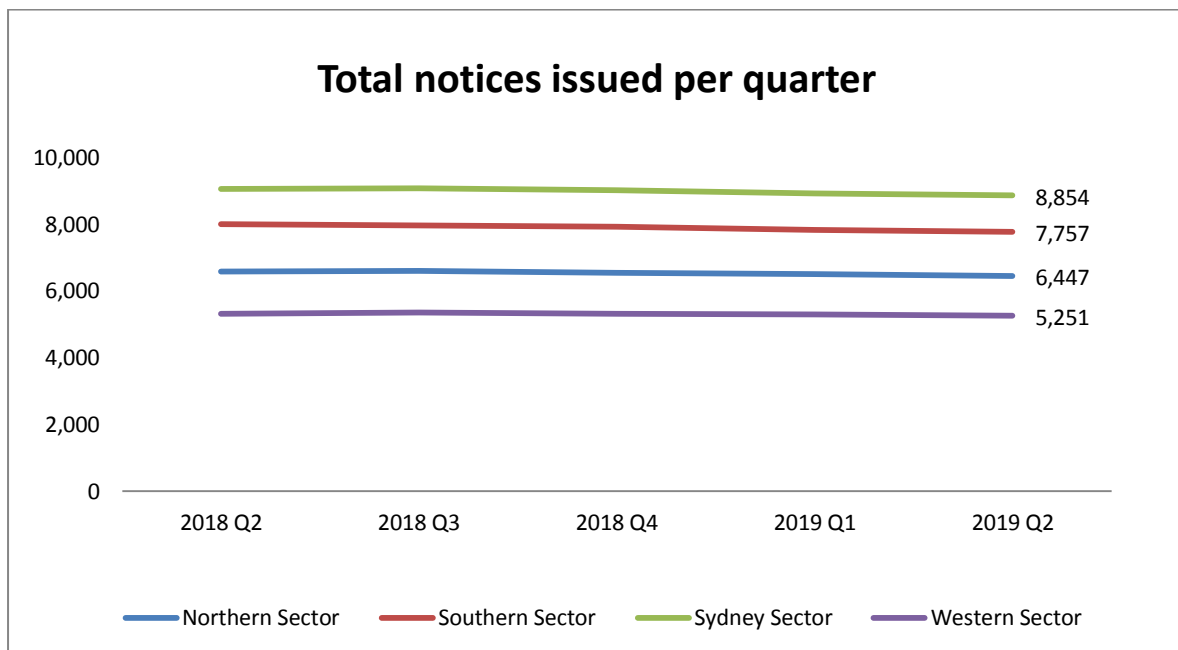
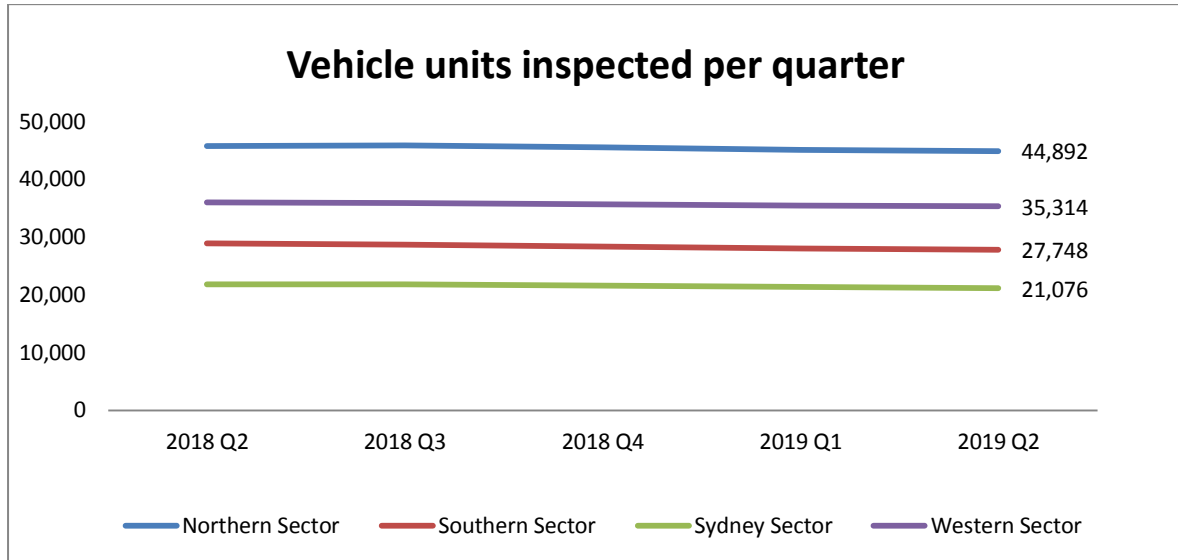
'Undefined' includes offences where the severity is uncategorised

2019 Q2: includes data from Apr 2019 to Jun 2019.

Vehicle units inspected and Notices by Sector

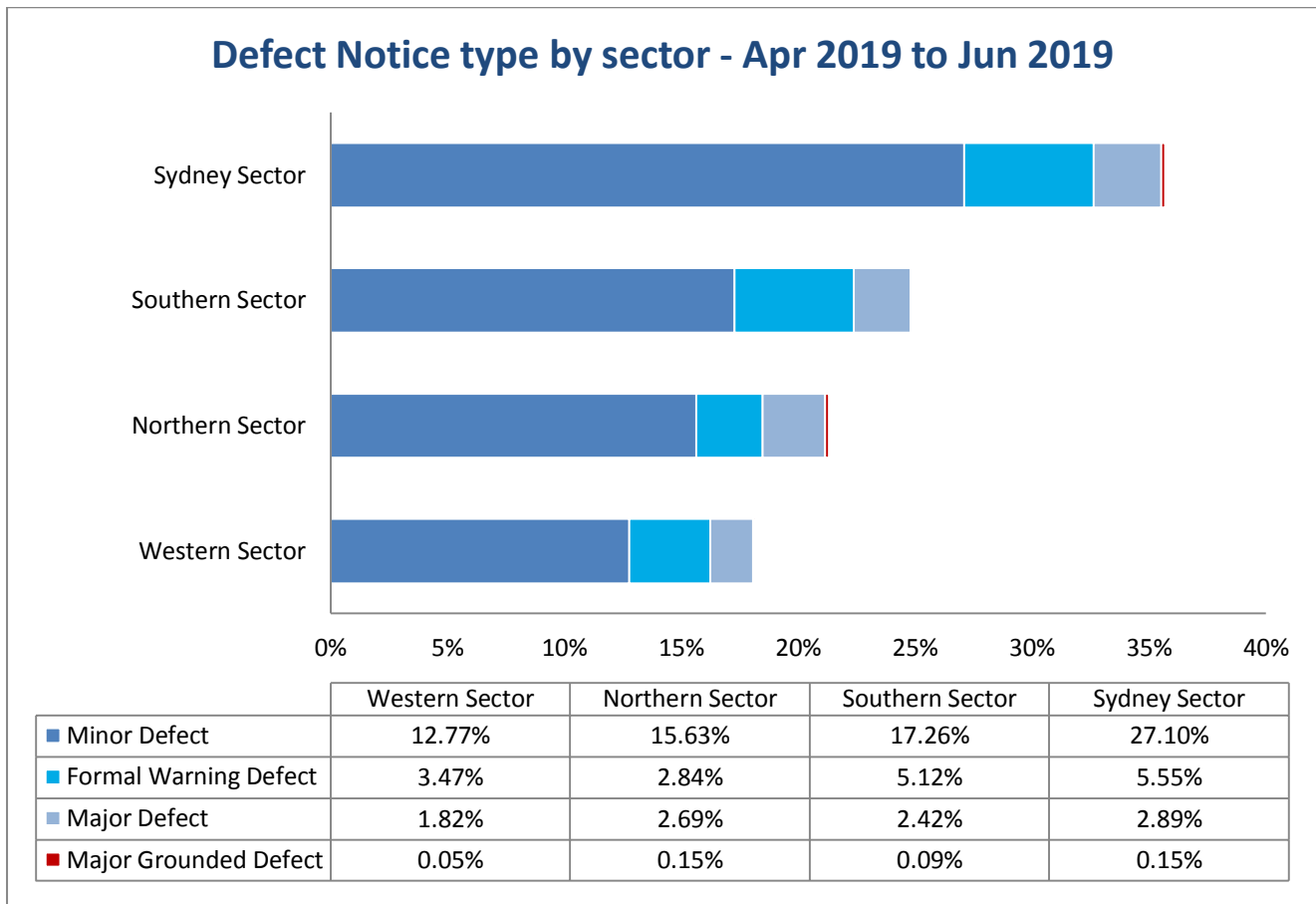
Rolling average of Vehicle Units Inspected and notices issued by sector for the last five quarters from April 2018 to June 2019.

Number of vehicle units and notices are consistent over the past five quarters. However, notice to vehicle unit inspection rate for Sydney sector is 42 per cent with 21,076 vehicle units inspected and 8,854 notices issued as at 2019 Quarter (Q) 2.



Defect notices issued by Enforcement Operations Sector

The majority of the defect notices are issued within the Sydney sector. Over 59 per cent of defect notices are issued in Sydney and Southern sectors.

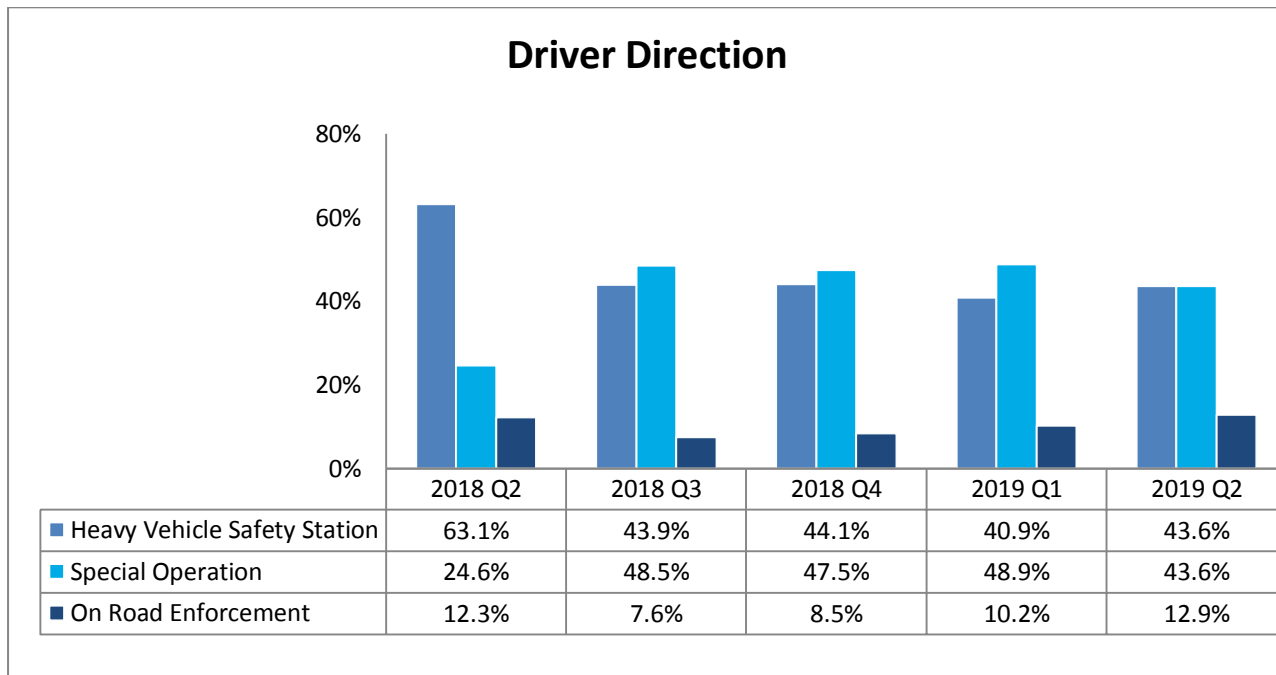


Notice Type	Western Sector	Northern Sector	Southern Sector	Sydney Sector
Minor Defect	2,489	3,047	3,364	5,283
Formal Warning Defect	676	553	998	1,082
Major Defect	354	524	471	564
Major Grounded Defect	9	30	18	29

Number of driver directions by year

Driver direction relates to fatigue offences where drivers are directed to take a mandatory rest break. Driver direction notices are issued through the RMS enforcement compliance programs - Heavy Vehicle Safety Stations, On-Road Enforcement and Special Operations.

The proportion of Driver direction notices for Heavy Vehicle Safety Station reduced by 19.5 per cent and for Special Operation increased by 19 per cent in quarter 2, 2019 compared to the same time in previous year quarter 2, 2018.



Program	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2
Heavy Vehicle Safety Station	77	58	52	36	44
Special Operation	30	64	56	43	44
On Road Enforcement	15	10	10	9	13

Note: 2019 Q2 data includes from April 2019 to June 2019

Notes:

- Quarter 2 (Q2) 2019 includes data from 1st April 2019 to 30th June 2019.
- Adding percentage results may give a rounding error of $\pm 0.1\%$ on the total.
- Adding average results may give a rounding error of ± 1 on the total.
- Intercepts: refers to the number of vehicle combinations intercepted and can have multiple vehicle units.
- Vehicle unit inspected: Refers to an individually registered vehicle unit.
- Notice to vehicle unit: the number of vehicle units that are issued one or more notices.
- Total notices: are total notices issued to vehicle units, noting that one vehicle unit can be issued more than one notice.
- Compliance rate: percentage of vehicle units inspected that are compliant.
- Formal Warning defects are also known as Self Clearing defects.
- One vehicle combination can have multiple vehicle units, and a heavy vehicle unit can be issued with multiple defect notices during an intercept, i.e. a major defect notice & a minor defect notice.
- A defect notice can be issued for multiple defect fault types requiring attention/repairs, i.e. Brakes, Wheels/Tyres and Oil/Fuel Leaks.
- One notice can be issued for multiple offence categories, i.e. breach, load restraint or fatigue.
- An offence category can be issued for more than one severity, i.e. critical, severe or minor.
- Other State includes - ACT, NT, SA, WA, and TAS.
- This analysis is based on data retrieved from the Vehicle Regulation Operation (VROP) database on 05 July 2019.

The data included in this report may differ to front-end system reporting due to extraction time.

VROP query date range from 01/07/2014 to 30/06/2019.

- The Mass/Weight breach severity applying to heavy vehicles:
 1. Severe: a mass equalling 120% of the maximum mass permitted
 2. Substantial: a mass equalling 105% of the maximum mass permitted or 0.5 tons higher than the maximum mass permitted
 3. Minor: a mass less than the substantial risk breach lower limit.