



GTSN TRUCK BOOK

Version 5.0 – September 2025

For Questions, phone 1800 809 402 (opt 2)

Grain Transport Safety Network

WWW.GTSN.COM.AU



QUICK **N**AVIGATION

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1 Introduction

This Truck Book has been developed by the Grain Transport Safety Network (GTSN) to help ensure that trucks are loaded within legal mass limits reducing the public risks from excessively loaded or excessively large heavy vehicles on our roads.

The GTSN is a collaborative network of grain industry supply chain participants including loaders and unloaders of grain, freight providers, end users, growers, and the government/statutory authorities. The primary objective of the GTSN is to raise awareness of the risks arising from the transport of grain and improve the safety of grain moved by heavy vehicles.

For more information about the GTSN see www.gtsn.com.au.

1.1 Purpose

The purpose of this Truck Book is to guide loaders, unloaders and operators to accurately identify the mass requirements applying to bulk grain trucks. The use of this Truck Book will help ensure trucks are loaded within legal mass limits and reduce the public risks from overloaded heavy vehicles on our roads.

To help simplify the process of identifying truck mass limits, the GTSN also publishes a Truck Chart with the top 10 most used grain truck types (see Figure 1: GTSN Truck Chart). Each truck type is assigned a truck code for ease of identification and reference. This Truck Book complements the Truck Chart by providing more detail on the vast range of heavy vehicles used to transport grain and their mass requirements.

GTSN members periodically review truck volumes to determine the top truck codes for the Truck Chart and review the contents of this Truck Book to make sure all heavy vehicle combinations are included. New truck code requests should be emailed to enquiry@gtsn.com.au.

An electronic copy of this Truck Book and the GTSN Truck Chart can be downloaded from the GTSN website at www.gtsn.com.au.



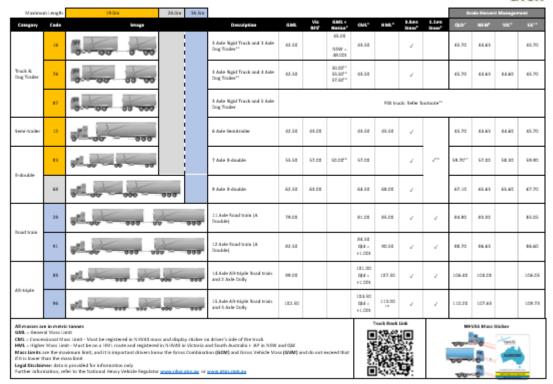
The GTSN Truck Chart 1.2

A summary of the most commonly identified /most grain trucks is on the GTSN Truck Chart (see Figure 1). This should be the first point of reference when understanding grain truck mass limits.

Figure 1: GTSN Truck Chart

Grain Transport Safety Network Truck Chart





Code	PBS (GML)	PBS (CML)	PBS (HML)
16	48L5D	49.5D	49.5D
76	56.00	57.50	57.50
87	59.50	61.50	63.00

Mans limits apply for tracks that comply with the National Class 3 Truck and Dog Trailer Mans Everption Notice 2020 (No. 1)

Publish date August 2025

Refer Wicharlo Clear 3 Road Friendly Supervision Mass Exemption Notice 2019 (No.1)

Refer Notice researc

a) Noticeard Clear 3 Track and Dag Trailer More Exemption Notice 2019 (No.1)

Noticeard Clear 3 Track and Dag Trailer More Exemption Notice 2019 (No.1) — GHNS concessions do not apply to permit mass limit. Most tracks are engineered to load to the examinum mass limit and in some cases and exemption in the mass limit the mass limit. How the track package

Noticeard Clear 3 Newsy Writicle 4-Double Archaerisation (Notice) 2014 (No.2)

**CML — Concessional Most Limit Track has Ninko Shake accordation and micker attached to the track jies above)

**Tracks in SA and Victoria require NNVAS Mass to Operate to HNL. In NSW and Vic. GPS tracking (unually TMA) is required. See track book for more detail.

**O.2. steer and a allowance applies to include that can write the requirement of the Victoria Clear 2019 (No.1)

**O.3. steer and an allowance applies to track to with a Gross Visibale Mass (SVM) over 15 connect littled with specific to extend place in the victoria requirement and the Victoria Clear 2019 (No.1)

**Little Business applies to Road tools and All triple combinations fitted with these tyme 175 mm or wider and that meet the requirements for the DSI steer allowance

**Little Clear Clear 2019 (No.1)

**Littl

^{**} Mass lares apply for tracks that comply with the Astronar Case of Tracks and Day Tracks and Eagl Tracks and

³⁶ On general access (non-8 double) routes, GWL = 50.0t and GWL = 51.0t
³⁷ On routes with no 8 double access, Qld = 51.70t, NSW and Vic GHWS = 52.5t
³⁸ NHWR Access Permit required to operate in South Australia



1.3 How to use the truck book

This book is designed to be used with the GTSN Truck Chart (see Figure 1) to provide:

- a) a complete list of the different truck types and combinations that operate in the grain industry, and
- b) more detail on the mass limits and types of permits they operate under.

At the core of this Truck Book are the truck codes contained in Section 4 of this book. Figure 2 below is an example of one of the most grain truck combinations showing the page detail.

Figure 2: Example table showing mass limits for truck code 12 – a 6 Axle Semitrailer

Semitrailers: 6 Axle Semitrailer

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State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											45.70 ⁷¹
NSW	42.50	-	42.50	45.50		,	√70				44.6372
Vic	42.50	43.00	43.50	45.50	-	✓			-		44.60
SA		-					√73				GML 44.63 CML 45.68 HML 47.78

The truck table headings are abbreviated as summarised in Figure 3 below.

Figure 3: Acronyms used in the truck tables

GML	General mass limits
RFS	Road friendly suspension
CML	Concessional mass limits
HML	Higher mass limits
PBS	Performance based standards
GHMS	Grain harvest management scheme

Note: All mass limits are in metric tonnes, rounded to two (2) decimal places.

The mass limits provided are for information only and are accurate at the time of publication.

Any column or cell with "-" in the table represent not applicable.

A tick " \checkmark " in the 0.5t Steer or 1.1t Steer columns indicates the steer axle allowance is applicable and can be added to the stated mass limits.



The Truck Book is designed to navigate as efficiently as possible to the truck code pages and details related to permits using the following features:

1. Navigation on page 1

Use the Navigation at the front of the book to navigate to a lookup table for each type of truck.



2. Lookup tables by Truck Type

Use the lookup tables for each truck type to navigate to the detailed truck codes (e.g., Truck & Dogs etc.)



Truck Codes
 (for all known truck configurations and combinations)

Use the detailed truck codes to help determine the mass limit applying to the vehicle (e.g., 6 Axle Semitrailer).



4. Truck Code Quick Lookup Table (by number)– all truck codes sorted in numerical order Alternatively use the Truck Code Quick Lookup Table (by number) at the back of the book (Section 6) to navigate to the detailed truck codes.



5. Procedural Guidelines and Technical Information

For more information to assist with determining mass requirements applying to different truck codes. See also links to go to specific sections, figures or truck codes, for example,

GTSN Truck Chart (see Figure 1)



1.4 What does the law say?

Over time it has been identified that serious heavy vehicle incidents and breaches of the law, such as overloading, are often caused by the actions or inactions of other parties in the supply chain, not just the truck driver or transport operator.

Chain of Responsibility (CoR) is a concept used in the <u>Heavy Vehicle National Law</u> (HVNL) to place legal obligations on particular parties in the supply chain of a heavy vehicle, in addition to the truck driver or transport operator.

The aim of CoR is to ensure every party in the chain of responsibility for a heavy vehicle proactively manages risk and prevents breaches of heavy vehicle laws. Most importantly, CoR is in place to reduce public risk (to people, property and the environment) and improve public safety.

Any party who has the **capacity to control and influence** the transport activity is responsible for **ensuring the safety of the transport activities.** If you are a party in the chain of responsibility for a heavy vehicle, you have a **shared responsibility** and a legal obligation to **ensure your conduct does not cause or encourage** breaches of the law. The level and nature of a party's responsibility depends on their ability to **control, eliminate and minimise risk** of the transport activity.

1.5 Who is a party in the chain of responsibility?

A party in the chain of responsibility of a heavy vehicle includes the:

- Employer (of the driver)
- Prime contractor (for the driver)
- Operator (of the vehicle)
- Scheduler (of the vehicle)
- Consignor (named sender of goods) e.g. growers, bulk handlers
- Consignee (named receiver of goods) e.g. bulk handlers and ports, feedlots, mills
- Packer (of any goods in the vehicle)
- Loading manager (for any goods in the vehicle) e.g. bulk handlers and ports
- Loader (of any goods in the vehicle) e.g. growers, bulk handlers
- Unloader (of any goods in the vehicle) e.g. bulk handlers and ports.

The HVNL imposes a positive duty on all CoR parties to ensure the safety of their transport activities (section 26C(1) of the HVNL). They must do this in at least two ways: by eliminating or minimising public risks; and by ensuring their conduct doesn't cause or encourage a driver or another person, directly or indirectly, to breach the HVNL. This includes risks and breaches caused by overloading heavy vehicles.

More specifically in relation to mass limits, under section 96 of the HVNL, a person who drives, or permits another person to drive, a heavy vehicle on a road must ensure the vehicle and load, comply with the mass requirements applying to the vehicle.



1.6 What are the risks?

The factors that may contribute to the risk of a grain truck being overloaded include:

- a) Grain is a heavy product that may cause a truck to be overloaded before its cubic capacity is met
- b) Different types of grain are denser (heavier) than others which may contribute to this risk
- c) During the grain harvest season, trucks are loaded on farm in paddocks where there is no, or limited, weighing facilities
- d) Grain loads are typically paid on a per tonne basis and parties will aim to maximise payloads to deliver productive and efficient business outcomes.

An over-mass or unevenly distributed load can adversely affect the stability, steering and braking performance of a heavy vehicle. This can result in the driver losing control of the vehicle and cause serious incidents involving serious injuries and fatalities to drivers, other road users and pedestrians.

A heavy vehicle that is overloaded can cause damage to road infrastructure and damage to the vehicle itself, including suspension damage and degradation of structural integrity.

There are also significant fines and penalties for not complying with mass requirements.

1.7 How to control the risk?

The GTSN maintains this Truck Book so grain industry supply chain participants can cross reference trucks with the corresponding truck code in this Truck Book to confirm legal mass limits. By referencing the technical information section, industry participants can verify permits and corresponding mass limits for entry into weighbridge systems.

It is for bulk handler weighbridge systems to validate the gross weight of the vehicle against the legal mass limit to verify that the bulk handler and freight provider comply with the legal mass limit.

As a party in the CoR, grain industry supply chain participants have a legal obligation to ensure the vehicle and its load comply with mass limits. This can be done by:

- 1. Providing accurate weights and quantities of goods loaded
- 2. Understanding vehicle tare and net weights prior to loading e.g. by using this Truck Book
- 3. Verifying loaded vehicles comply with gross mass and where practicable axle/axle group weights
- 4. Positioning the load to maintain weight distribution and vehicle stability.

More information on CoR and how to take responsibility for the safety of transport activities is available in the <u>Master Industry Code of Practice</u> (Master Code) – a registered industry code of practice under section 706 of the HVNL.



This is an example what not to do: Case Study - "I'll take it off the tare"

A truck loads in a paddock to deliver into a bulk handler's grain silo. There is no weighing equipment in the paddock and the truck exceeds the legal mass limit by 0.5 tonnes. The bulk handler's system will report the breach to the regulator in that state as per the requirements of the scheme.

The weighbridge operator knows the driver. To avoid conflict, the weighbridge operator offers to disable the weighbridge and use the reason that it is windy. This will allow them to deduct 0.5 tonnes off the gross and tare weights so the truck can be unloaded.

The weighbridge operator and driver have just committed an offence by manipulating the system to unload an overloaded truck.

Obviously, this is an example of what <u>NOT</u> to do.

The truck should be unloaded, and a non-conformance raised with the grower (loader) and transport company (operator) to allow them to adjust their loading practices to minimise the risk of future overloading.

1.8 Search tips and useful links

Notice and permit names, instead of direct links, are included in this Truck Book because the specific link where they are published may be subject to change.

To find a notice or permit, a good approach is to search for the document name using your preferred web engine search provider (e.g. Google etc.). For example, searching for National Class 3 Heavy Vehicle 19m Truck and Dog Trailer Combination Mass Exception (Notice) will take you to the NHVR website.

Useful links include, but are not limited to:

https://www.nhvr.gov.au/

https://www.tmr.qld.gov.au/business-industry/Heavy-vehicles

https://www.transport.nsw.gov.au

https://transport.vic.gov.au/business/heavy-vehicles

1.9 Legal disclaimer

The GTSN invest significant time and effort to record mass limits and information contained in this Truck Book accurately and reflective of the mass limits under the HVNL. The GTSN do not warrant that information in this Truck Book is completely accurate at any given time, and the GTSN encourage all users of the book to take caution with any information provided and refer to the National Heavy Vehicle Regulator for actual mass limits if you have any concerns.

Guidelines are used at various points throughout the document, and they are not always universally implemented.

This Truck Book is a 'live' document that aims to consolidate different information sources about truck mass limits into a single, easy to read, guide for users of bulk grain trucks.

Feedback about the Truck Book, or any potential technical inaccuracies are welcome via enquiry@gtsn.com.au. This feedback will be reviewed by the GTSN and, where required, incorporated into future versions of the Truck Book published on the GTSN website at www.gtsn.com.au.

Procedural Guidelines and Technical Information



2 Procedural guidelines

This section outlines issues that arise when identifying mass limits and other issues related to bulk commodity movements. These procedural guidelines provide general guidance only. Grain industry supply chain participants should refer to their own risk management processes and procedures to control identified risks.

2.1 Accurate information recording

Information entered into business information systems is used for customer invoicing, inventory and compliance purposes.

It is important that this information is entered correctly, in particular:

- Vehicle registration
- Truck type / truck code
- Permits to operate above GML and/or off a gazetted route
- Permit numbers.

When keying in this information be alert for similar characters e.g. number 1 and letter I, letter O and number 0, letter S and number 5 etc.

Helpful tip: Truck registration numbers are typically 6 characters.

When manually recording gross and tare weights where business systems do not allow automatic capture of this data, extra care must be taken to accurately enter it. Also, be aware of changing conditions such as rain or high winds etc. that could affect data accuracy.

Industry practice is to record the registration plate of the prime mover only. Registration plate details for trailers and dollies are not typically recorded with bulk grain.

2.2 Truck registration checking

A good way to lookup truck registrations is using the National Heavy Vehicle Regulator (NHVR) Registration Check App. The NHVR Registration Checker app allows checking of the registration status of any heavy vehicle registered in Australia, except heavy vehicles registered in the Northern Territory without a national heavy vehicle plate. The app also displays other helpful information, including NHVAS accreditation numbers and PBS Vehicle Approval and Access Permit Numbers.

Truck registration information is not available for bulk download to integrate into business information systems; therefore, it would hinder operations to lookup this information individually for all deliveries. It is considered good practice to do random risk-based audits on truck registrations.

For more information see the NHVR website at www.nhvr.gov.au. The app is free to download from the App Store or Google Play Store.

Note, there can be a delay between registrations being renewed and the data displaying on the NHVR app and website. Cross check with state registration websites before determining if the truck shows as being unregistered before managing.

2.3 Primary producer plates

Due to the agricultural nature of bulk grain handlers, primary producer plates are common. It is difficult to identify if primary producer plates are being used when loading, so bulk handlers often view this as not reasonably practicable to check for.



The risk profile for growers and truck operators is higher, and they must take care to ensure state primary producer requirements are met when transporting grain.

2.4 Mass management guidelines

2.4.1 Loading trucks without weighing facilities

Due to there being no or limited weighing facilities on farm where grain trucks are frequently loaded, especially during the harvest season, there is a real risk of trucks being overloaded.

To manage this risk, trucks are commonly loaded to cubic capacities or waterlines, and this may not always be accurate, particularly when the test weight of the grain varies within the paddock.

The Master Code suggests comparing estimated weights with any confirmed weights, and to take any variations into consideration when adjusting future loading arrangements. For example, where a load is not weighed at the loading point, such as a farm, but is weighed at the destination for invoicing, such as bulk handler country silo.

Some trucks loading on farm may also use vehicles or combinations fitted with on-board mass systems (weigh scales) or air pressure gauges. Care must be taken with these systems when loading in paddocks with uneven, soft surfaces because they can lead to inaccurate weight readings.

2.4.2 Managing trucks that exceed legal mass limits

Despite the controls outlined above, there remains a risk of grain trucks being overloaded. If a grain truck is confirmed to be overloaded upon receival at a site with a weighbridge, it is recommended the following action be taken:

- Weighbridge systems alerts to ensure data accuracy, identification of allowable mass limits and overloading
- Companies should have:
 - a) procedures to communicate with other CoR parties when overloaded trucks occur to prevent repeat offences
 - b) have issue resolution procedures to manage repeat offenders
- Grain harvest management schemes require data reporting to regulators, who can act on this data, including non-compliance to mass limits
- Truck rejections are not encouraged because trucks will be knowingly overloaded when they
 drive back on a public road.
- If a truck cannot unload (due to quality, insects, or operational reasons) and must drive on public roads before it unloads, steps must be taken to minimise the distance that trucks drive on public roads.

2.4.3 Axle/axle group weights for grain

Overloaded axle groups impact vehicle stability and increase wear and tear on road surfaces.

Currently, bulk handler weighbridge systems are not set-up to measure, record and validate axle/axle group mass limits.

Bulk handler risk assessments classify axle weighing as something that is not reasonably practicable to do.



2.4.4 Weighbridge certification

Weighbridge accuracy is important to ensure accurate weights are known for trade purposes and prevent non-compliance to mass limits. Weighbridges used for trade must be re-verified in compliance with the <u>National Measurement Act</u> and the <u>National Trade Measurement Regulations</u>.

Independent weighbridge certification specialist's complete re-verification as per National Measurement Institute (NMI) and manufacturer guidelines, or company policy. A verification mark is applied to weighbridges which meet these requirements. Certifications may also be kept on site.

In addition to formal weighbridge certifications, it is recommended simple tests are carried out on a regular basis to check the accuracy of weighbridges. For example, some companies do a daily or weekly weighbridge check with a known weight, such as a work vehicle, or a truck that has loaded at a different site. For good measure, records of these checks should be kept.

2.4.5 Trucks driving on public roads between load point and weighbridge

Trucks often drive on public roads between the load point and the nearest weighbridge when public roads separate them.

Sites with this issue must manage the associated risks to eliminate or minimise trucks knowingly driving on a public road weighing more than the legal mass limit.

2.4.6 Splitting trucks

Trucks often split in transit when they load as Type 1 Road Trains (truck code 28 or 91), or AB-triples (truck codes 88 and 96), and then split into semitrailers (truck code 12) and B-doubles (truck code 68). For example, triples and Road Trains often split at Toowoomba before driving to Brisbane.

Trucks that split in transit have a higher risk of overloading because the mass limit for the long combination is calculated based on the number of axles. When the truck splits, trailers loaded close to the maximum mass limit on the dolly can potentially exceed the mass limit because prime movers are heavier than the dolly, and less mass is permitted on the tandem drive group of a prime mover than the dolly.

To manage the risk, the second trailer setup should underload by the approximate difference between the weight of the prime mover drive group and the dolly. Additionally, the gross weights at the destination must be monitored for overloads so corrective actions can be taken when they occur.

2.5 Hygiene

Grain Trade Australia (GTA) have a Transport Code of Practice that details truck hygiene requirements. The key components of the code are summarised below:

- a) The goal of cleaning is to remove any contaminants (e.g. residual dust or chemicals) and to ensure the integrity of the grain to be loaded is not compromised.
- b) A carrier should keep a record of the commodities carried and the cleaning method used after each grain movement.
- c) Cleaning must be done in consideration of the applicable standards relating to the grain to be loaded and with regard to previous loads carried. If live stored grain insects have been detected, the truck requires removal and treatment to disinfest the transport unit.
- d) The main methods of cleaning are:
 - Sweeping or



- Compressed air
- o Compressed air followed by steam/sanitizing/washing.
- e) It should be noted that sweeping with a broom is unlikely to remove contaminants such as dust, live stored grain insects and chemicals.
- f) The GTA code details materials that are excluded as prior loads to the cartage of grain.

2.6 Truck driver site inductions

It is good practice to provide drivers with a site safety induction prior to loading or unloading to make them aware of industry and site-specific risks that may affect their health and safety.

2.6.1 Health and safety risks

Some of the key health and safety risks to be considered include:

- Manual handling and falls from height, both pose a serious safety risk to truck drivers when working on a receival site. To manage these risks, the following rules must be followed:
 - Climbing on or between trailers is not permitted
 - o Trailers must be fitted with ground operated roll-over tarps
 - Receival sites do not provide trailer clean down facilities and trailers must be cleaned prior to arrival
 - o Receival sites will not load trucks with residue from previous loads.
- Crush injuries from uncontrolled movement of trucks. To manage this risk trucks must be immobilised by:
 - Drivers must apply the appropriate truck brakes properly before getting out of the vehicle
 - Some bulk handlers require heavy vehicles to be fitted with handbrake warning systems and or require wheel chocks
 - NEVER attempt to re-enter a moving vehicle.

2.6.2 Roles and responsibilities

Truck drivers must operate their own vehicles, tipping equipment and tail gates. Tail gate chains must be fitted to all trucks.

Receival site staff will direct truck drivers to the appropriate load and unload points.

Specific training is required to operate load/unload points and equipment and under no circumstances should truck drivers operate receival site equipment, including pulling tarps.

2.6.3 PPE and other requirements

Personnel Protection Equipment (PPE) must always to be worn without exception when on receival sites. The PPE required is:

- Steel capped footwear (mandatory)
- High visibility clothing e.g. vest (mandatory)
- Safety glasses (recommended)
- Hard hat (as required).



Other requirements to be considered include:

- Smoking is only permitted in designated area of a receival site. Smoking is prohibited in the confines of the driver's vehicle whilst on the receival site
- All receival sites have a maximum allowable speed limit of 15 km/h for vehicles while on site
- Truck drivers are to follow all reasonable directions from onsite staff and conduct themselves in an orderly and professional manner
- All injuries and dangerous occurrences are to be reported immediately to onsite staff
- Basic first aid equipment is available on site if required, please speak to onsite staff. The receival site manager is typically the site emergency contact.

2.7 Vehicle standards

2.7.1 Convertible trailers

Convertible trailers are flat bed trailers fitted with gates and tarps to allow storage of grain. Although they were once common, they are now infrequently used for bulk grain transport.

Convertible trailers either have rams with a rear tailgate, or a non-tipping design without rams that allows the grain to pour off the side of the trailer.

Non-tipping trailers are very slow to unload, and grain spills are common, so most bulk handlers do allow them to unload at their sites.

Tipper convertible trailers are banned from some grain handler sites and care must be taken because these trailers can be longer than usual grain tippers, increasing the risk of the trailer rolling over when unloading.

Further information about GTSN member policies can be found on the GTSN member websites.

2.7.2 Tailgate chains

All grain tipper tailgates must be fitted with chains adequately engineered to control the tailgate when unloading. It is practice for GTSN members to check these chains when unloading to ensure they comply with GTSN member safety compliance requirements.

GTSN members also commonly have policies where staff are not permitted to operate tailgate chains due to the potential safety risks involved.

2.7.3 High sided trailers

Grain load spouts are generally engineered to accommodate grain tippers to a maximum height of 1.8 metres.

Occasionally, high sided tippers from other industries will do bulk grain work. Care must be taken with these combinations because they are may not fit under load spouts and they can be difficult to sample and unload.



3 Technical Information

This section includes information about truck configurations and the most exceptions and conditions that allow trucks to load above the General mass limits (GML). There are mass exceptions (also known as mass concessions) that apply as exceptions to GML, these include:

- Regulatory requirements and conditions e.g. tyre width, suspension type, steer allowances
- National Heavy Vehicle Accreditation Scheme (NHVAS) mass management accreditation
 - Concessional mass limits (CML)
 - o Higher mass limits (HML)
- Notices and permits i.e. access authorisation
- Performance based standards (PBS)
- Grain harvest management schemes (GHMS).

More information on each of these mass exceptions and conditions will be discussed further throughout this Chapter and are detailed for each truck code in <u>Section 4</u>.

3.1 Showing evidence of permits

Truck drivers can present paper copies of permits, or in electronic format on mobile smart phones or other portable electronic devices.

3.2 NHVR Online Tools

The NHVR offer a website and mobile phone app to lookup information about trucks (see Figure 4). The mobile phone app gives more information, and it should be the preferred option to use.

Note that there can be a delay in truck registration being removed or renewed and the data being displayed on the app. If trucks show as being unregistered on either the app or the website, it should be confirmed on the state registration websites.

Figure 4: NHVR App logo in App Store

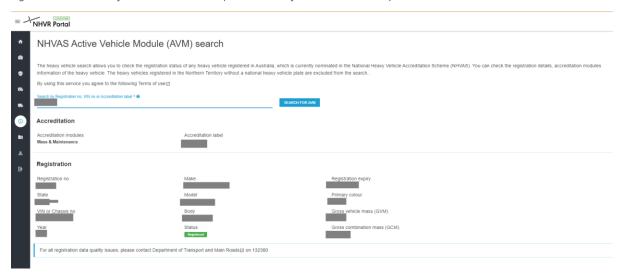




3.2.1 AVM Search

The NHVR has an <u>Active Vehicle Module (AVM) search</u> to check in real time if trucks have accreditation. This is a useful tool if there are concerns about the validity of stickers (see Figure 5).

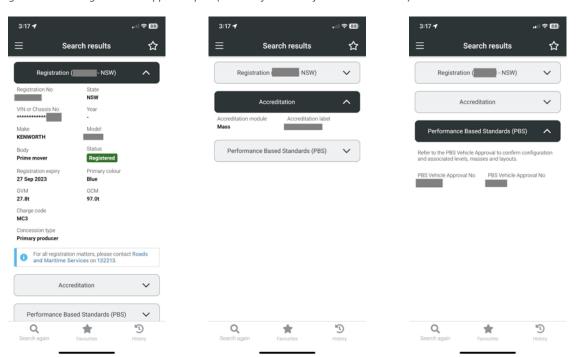
Figure 5: Screenshot of NHVR AVM website (with results of search blacked out)



3.2.2 Rego Checker App

The NHVR Rego Checker App is better than the AVM Search because it gives additional information beyond NHVAS Accreditation status including information about the truck (i.e. make, body, charge code) and if the vehicle has PBS Accreditation. Figure 6 shows how the information is presented in the app.

Figure 6: NHVR Rego Checker App Examples (with confidential information removed)





3.3 Truck length, heavy vehicle access and NHVR Access Permits

General access trucks have the following features:

- Less than 12.5 metres for a truck
- Less than 19.0 metres for a truck and trailer or articulated vehicle (combination)
- Less than 42.5 tonnes gross mass, except by permit e.g. non-PBS trucks with 3 or 4 axle dog trailers or 19 metre B-doubles.

In most areas where there are bulk grain movements, there is B-double access. Road train and AB-triples typically operate away from urban areas as permitted on the road network. In some instances, an access permit is required – see Figure 7: Truck types requiring NHVR access permits.

See Figure 8 for an example permit and what to look for.

For more information on heavy vehicle access see the National Network Map on the NHVR website at www.nhvr.gov.au.

If a B-double, road train or AB-triple arrive at site without an access permit, they can split and deliver as a smaller combination, and then leave the as the smaller legal combination to eliminate a second off route breach.

Permit routes between destinations are complex to check. industry practice for GTSN members is to validate mass limits and access at the load and/or unload point and not the specific route that trucks may drive.

Measuring truck lengths and axle spacings is a safety risk and GTSN members do not typically do this.

9 Axle
B-double

Type 1 Road trains and AB-triples

Type 2 Road trains

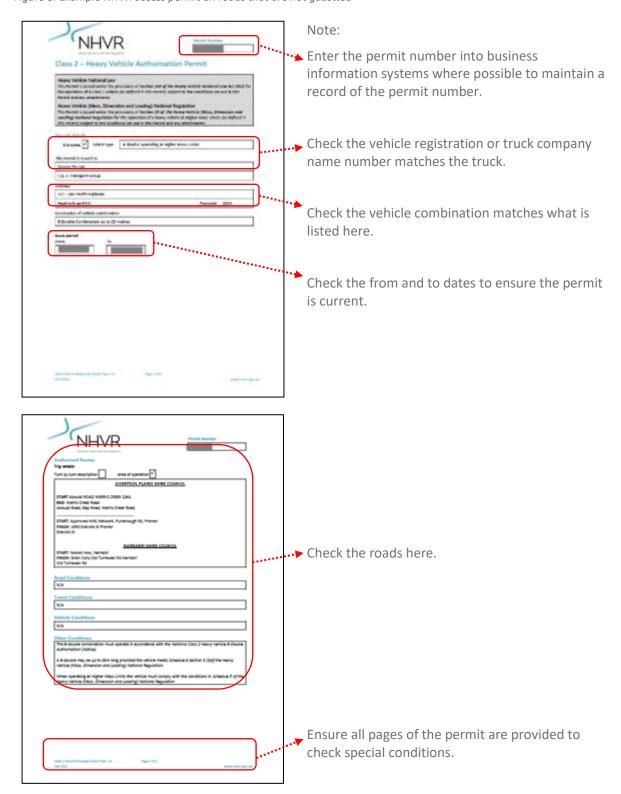
(c) (c) (c)

Figure 7: Truck types requiring NHVR access permits

666



Figure 8: Example NHVR access permit on roads that are not gazetted



3.3.1 Sharing Access Permits

Section 152 of the Heavy Vehicle National Law outlines how NHVR Access Permits can be shared between relevant parties including truck operators.

Key points GTSN members must be aware of about permit sharing:



- Relevant parties can apply for NHVR Access Permits and make them available for grower trucks delivering during harvest, or for non-harvest truck operators to use
- Drivers must hold a copy of the permit electronic copies are acceptable
- The truck must meet the conditions of the permit i.e. it must be the same truck code
- Trucks operating as PBS Vehicles that reference specific Vehicle Approvals and must hold the permit in their own name.

Road Managers often chose to gazette roads for all operators when they approve access permit applications. Where roads are not gazetted, GTSN members actively work with the NHVR, state road authorities and councils to improve truck access to GTSN member sites.

3.4 GVM, GCM and legal mass limits

All trucks have a Gross Vehicle Mass (GVM), Gross Combination Mass (GCM) and a Legal Mass Limit. It is important trucks know all these mass limits when operating, and the <u>lower</u> of the three applies.

For example, the:

- GVM for a 3-axle rigid truck is 22.5 tonnes (truck only)
- GCM when this truck is towing a 4 axle dog trailer is 42.5 tonnes (truck and trailer), or
- 50.0 tonnes if it is operating under the Class 3 Truck and Dog Notice (truck and trailer).

Care must be taken with older model trucks because the GVM or GCM can be lower than the regulated legal mass limit. For example, under-powered older model prime movers towing road train combinations must be careful because they are not designed to pull heavy combinations.

Case studies

- a) If the manufacturer's GVM for a 3 Axle Rigid Truck is 24 tonnes and the regulated mass limit is 22.5 tonnes, the 22.5 tonne maximum legal mass limit applies (see truck code 9)
- b) If the manufacturer's GCM for a prime mover is 130 tonnes (road train rated) and it is towing two (2) by 3 axle trailers joined with a 2 axle dolly, the maximum legal mass limit is 79.00 tonnes—being the general mass limit (see truck code 28).

Due to difficulties in identifying the manufacturer's GVM and GCM, grain handlers typically do not check for this, and only check the legal mass limit specified by the Regulator. Truck operators must be aware of these limits and ensure they do not exceed them.

Steer allowances

3.5 Steer Allowances

3.5.1 0.5 tonne Steer Allowance

Trucks with the following safety and environmental features weigh more, so mass limit regulations allow these trucks an extra 0.5 tonne on the legal mass limit on the steer axle i.e. 6.5 tonnes instead of 6.0 tonnes.

• Trucks with a GVM over 15 tonnes fitted with specific technologies, including:



- An engine complying with ADR 80/01 (Euro IV).
- Front under-run impact protection (FUPs) that meets UN ECE Regulation No.93 or ADR 84; and
- Cabin strength that meets the requirements of UN ECE Regulation No.29.
- These trucks are typically built from 2008 onwards.

The most obvious feature of a truck that qualifies for the 0.5 tonne steer allowance is the Front Under-run Protection System (FUPs) bar, which is designed to stop other vehicles from going underneath the truck in a collision. FUPs bars are typically low to the road and trucks fitted with FUPs bars (see Figure 9) will also have compliance plates (see Figure 10).

Figure 9: Truck fitted with FUPs bar



Figure 10: FUPs bar compliance plates



3.5.2 1.0 Tonne Steer Allowance for ADR 80/04 (Euro VI) Prime Movers

On 1 November 2024, a mass limit increase applies to allow a 1.0 tonne mass limit increase for trucks compliant with ADR 80/04 (Euro VI). As ADR 80/04 (Euro VI) grain trucks become more common, the truck book mass limits will be updated to reflect these mass limits.



3.5.3 1.1 tonne steer allowance for Road Trains and AB-triples

The National Class 2 Road Train Authorisation Notice 2025 (No.1) allows road train rated prime movers fitted with steer tyres 375mm or wider to get an additional 0.6 tonnes steer allowance (mass concession) when the conditions are also met that apply to the 0.5 tonne steer allowance, giving a total 1.1 tonne additional mass limit on the steer axle i.e. 7.1 tonnes instead of 6.0 tonnes.

Road trains and AB-triples are the most grain trucks where the 1.1 tonne steer allowance applies.

3.5.4 1.1 tonne steer allowance for Semi-Trailers and B-doubles

Road train rated Semi-Trailers and B-doubles fitted with steer tyres 375mm or wider can also apply the 1.1 tonne steer concession under the National Class 3 Road Train Prime Mover Dimension and Mass Exemption Notice 2022 (No.1).

Other features of the notice include:

- Longer combinations, 27m B-double and 20m Semitrailer
- Operate with a dolly at the back of the B-double or semitrailer, noting that when weighing trucks with un-laden dollies, these must be left off the weighbridge when weighing the truck as illustrated in Figure 11. This combination is limited to 26m length.

Figure 11: Semitrailer and dolly weighed with dolly off the weighbridge



Care must be taken for Semi-Trailers and B-doubles applying the 1.1 tonne steer concession because the networks where it applies vary by state as per Figure 12 below.

Figure 12: State networks for Semi-Trailers and B-double for the 1.1 tonne steer allowance

	Qld	NSW	Vic	SA
Semi-	Queensland 25/26	New South Wales	Victoria B-double	South Australia PBS
Trailer	metre B-double	25/26 B-double GML	Network	Level 1A Network
	Network	Network		
B-double	Queensland 25/26	New South Wales	Victoria Road Train	South Australia 26m
	metre B-double	GML Type 1 A-	Network	B-double (GML)
	Network	double Network		Network

Networks where steer allowances apply are included in the footnotes on the individual pages of the truck book as per Figure 13 below.



Figure 13: Code 12 Example of Networks where 1.1 tonne steer applies

Semitrailers: 6 Axle Semitrailer											
12											
State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	42.50										45.70 ⁷¹
NSW		42.50 43.50	45.50		,	√70				44.6372	
Vic		43.00	43.30	45.50	-	✓			•		44.60
SA		-					√73				GML 44.63 CML 45.68 HML 47.78

70 Applies on the B-double network or greater only

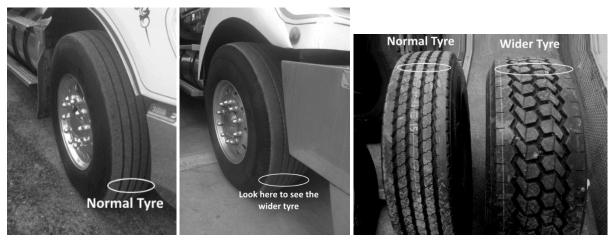
3 Applies on the PBS 1A network or greater only

3.5.5 Checking for Super Single Types for the 1.1 tonne steer concession

Tyre width is difficult for bulk handlers to identify because it is a safety risk for the weighbridge operator to physically inspect the tyre to see the width when the truck is on the weighbridge, therefore it is reasonably practicable to rely on the truck driver's direction about the width of tyres they operate. See Figure 14 for a comparison of tyre widths.

To physically confirm the tyre width, details are written on the tyre side wall. The first 3 digits should start with 375 or higher. For example, 375/90R22.5 indicates the tyre width is 375mm and is OK.

Figure 14: Comparison of tyre sizes



3.6 Concessional mass limits (CML)

Trucks that are part of the National Heavy Vehicle Accreditation Scheme (NHVAS) for mass management are permitted to load to the Concessional mass limit (CML). These trucks will display a sticker (accreditation label) indicating they are accredited – see Figure 15: NHVAS mass management

⁷¹ Steer allowance does not apply to QLD GHMS mass limits ⁷² Trucks with NHVAS Mass get an additional 0.2 tonnes.



sticker, look for the blue "Mass Management" banner on the sticker. The truck operator will have a NHVAS certificate of accreditation showing accreditation in the mass management module.

The stickers must be displayed on the driver's side of the cabin (see Figure 15). The sticker has a permit number that should be documented in business information systems when loading to CML. Sticker numbers are unique to each vehicle.

A condition of NHVAS Mass is the truck must display the NHVAS mass sticker, which means drivers cannot claim NHVAS Mass accreditation with the paper certificate (see Figure 16), or by requesting an online search.

Figure 15: NHVAS mass management sticker



Vehicle label dimensions: 90mm x 120mm

Figure 16: Example NHVAS Certificate of Accreditation (confidential information blacked out)



3.7 Higher mass limits (HML)

HML is a mass exception under the HVNL which allows higher mass limits on approved routes for particular vehicles or vehicle combinations dependent on other conditions being met (e.g. GPS tracking and/or road friendly suspension may need to be fitted to the vehicle).

Trucks operating at HML are potentially higher risk combinations from a legal mass limit perspective, so care should be taken when dealing with these combinations to ensure they have the correct permits to operate at the heavier weight.

Access for these combinations is on state and federally owned routes, with access being less on council owned roads that grain storage facilities are commonly located on. When access is not permitted, trucks must have a NHVR access permit as outlined in 3.7.1 HML access permits.

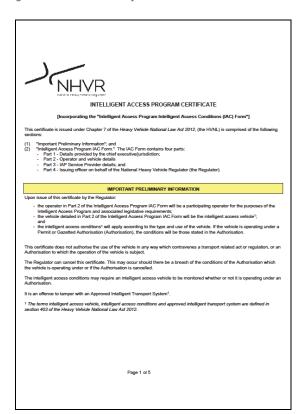


HML requirements differ by state, for example:

- All trucks operating HML must be compliant with NHVAS mass See Figure 15: NHVAS mass management sticker;
- In Victoria and South Australia, trucks only require NHVAS mass management to operate at HML, so HML loading is much more than CML loading
- In Qld and NSW:
 - GPS tracking is required to operate to HML, which means the vehicle must be fitted with either:
 - An Intelligent Access Program (IAP) and present a NHVR IAP Certificate (see Figure 17), or
 - Telematics Monitoring Application (TMA) GPS Tracking Device and present a TMA certificate (see Figure 21).
 - Most of these certificates do not have an expiry date
 - For trucks operating IAP:
 - As per the Queensland Higher Mass Limits Declaration 2024 (No.1)
 - From 1 December 2022, TMA replaces IAP in Qld and all new Qld trucks applying for HML in Qld will be issued a TMA Certificate
 - Trucks could use IAP until 2024
 - When checking the certificate, it is important that the details shown in Figure 18, to ensure they match the details of the truck, and the permit has a valid expiry date.
 - Note: Drivers may present a NHVR issued Interim Intelligent Access Condition (IAC) (see Figure 20) and this does not allow HML operation. These certificates are valid for 3 months and are setup to allow truck companies to install IAP equipment and enter into an agreement with an IAP provider.
- NSW Trucks operating IAP must have a current NSW Certificate of Enrolment Intelligent Access Program (IAP) certificate (see Figure 19), this certificate is not required with TMA.



Figure 17: NHVR IAP Certificate



Notes:

'IAP identifier' is what should be entered into business information systems.

From 1 December 2022, new trucks in Qld are no longer issued IAP Certificates and must operate with TMA Certificates.

Trucks in Qld could operate IAP Certificates if they had them from before 1 December 2022.

The document could have the Qld watermark and logo – this is ok.

All permits now have the NHVR logo and truck operators have been emailed electronic copies of this permit.

Figure 18: NHVR IAP certificate (cont.) with truck details

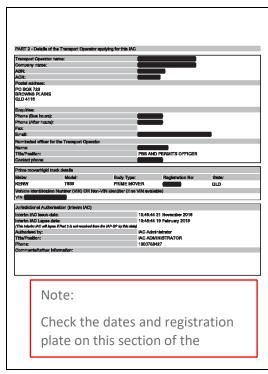


Figure 19: RMS NSW IAP Certificate



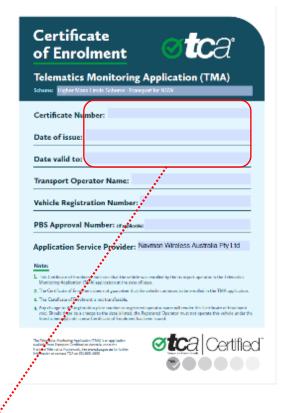


Figure 20: An NHVR issued Interim Intelligent Access Condition (IAC)

Figure 21: Telematics Monitoring Application Certificate

Note: look for 'Interim' because this is not a valid permit.





Check the registration number, expiry date (if missing, there is no expiry) and record the permit number in systems where possible.

3.7.1 HML access permits

Although HML access is on state and federal roads, it is less on council owned roads. Care must be taken to understand HML access requirements at sites handling bulk grain that are on council owned roads.

Trucks loading to HML that have to drive on non-HML roads must present an NHVR access permit that lists all the roads required to get the truck from the HML road network to the loading location – see Figure 8: Example NHVR access permit on roads that are not gazetted. These are unusual and care must be taken.

3.7.2 Qld 500 metre operation off the National Land Transport Network (NLTN)

In Qld, the <u>Queensland Higher Mass Limits Declaration 2024</u> allows HML trucks to operate up to 500 metres off the NLTN for the vehicle being used. For example, a semi-trailer, B double or Road Train can operate 500 metres off the HML NLTN. Please note the supporting document for this notice: <u>Queensland Higher Mass Limits Operator's Guide</u> (see Figure 22).



Care must be taken when operating under the HML Declaration because access it only applies:

- a) to the approved HML network,
- b) only on parts of an approved vehicle type network (i.e. General access/B-double/road train network) that is within 500m of the NLTN
- c) it does not apply to all HML roads, or to parts of an approved combination network that is more than 500m from the National Land Transport Network, and
- d) In grain operating areas, applicable NLTN roads include the Warrego, Gore and New England Highways (see Figure 23).

A NHVR access permit is required to operate more than 500 metres off the NTLN.

Note that the 500 metre allowance is now in the Operators Guide instead of the notice. For further detail, refer to the NHVR website:

https://www.nhvr.gov.au/C2024G00079-queensland-higher-mass-limits-declaration-2024-no1-operators-quide#t4

Figure 22: Queensland Higher Mass Limits Declaration

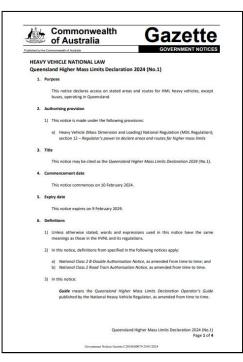


Figure 23: National Road Network Map (Qld)





3.8 Performance Based Standards (PBS)

PBS trucks are longer, heavier, or higher than 'standard' truck designs specified under the Heavy Vehicle (Vehicle Standards) National Regulation.

In grain, the most PBS trucks are truck and dog configurations and road trains operating in areas where road trains are not typically permitted to operate.

To determine the mass limit of a PBS truck, the NHVR Vehicle Approval and Access Permit or Notice needs to be used in conjunction, where the lower mass limit applies.

All PBS trucks must have a Vehicle Approval.

PBS trucks operating to PBS CML or HML must have NHVAS Mass see Figure 15: NHVAS mass management sticker.

PBS Trucks operating to PBS HML require GPS Tracking in NSW and Qld and can only operate to PBS HML weights on the PBS HML Network, refer section 3.7 Higher mass limits (HML).

All trucks operating as PBS must have a NHVR Vehicle Approval, which will include any specific information for that truck – see Figure 24. The purpose of the Vehicle Approval is to state that the truck is engineered to operate on public roads.

From a compliance perspective, the Vehicle Approval will also list the maximum GML, CML and HML that the truck configuration can operate to.

Trucks can only operate as PBS trucks once they have their PBS Access permit, which may be either a Gazette notice or an NHVR Access Permit.

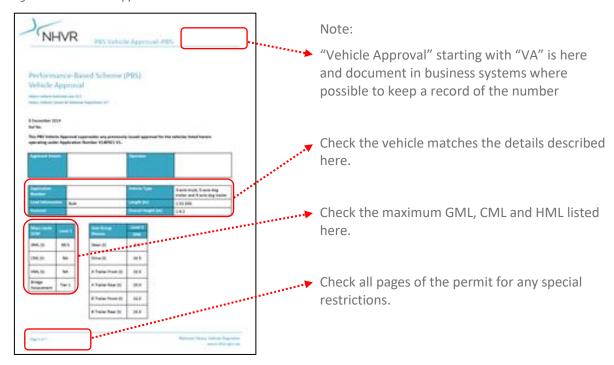


Figure 24: NHVR PBS Approval

NHVR PBS access permits are the most type of PBS access – see Figure 8: Example NHVR access permit on roads that are not gazetted. Care needs to be taken with PBS access permits because road



access can be limited and the maximum PBS weights from the vehicle approval are often restricted to specific routes during specific times.

3.9 National Class 2 PBS Level 1 & 2A Truck and Dog Trailer Authorisation Notice

The National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2) (see Figure 25) allows trucks with 3, 4 and 5 axle dog trailers to operate on the PBS 2A network with a NHVR PBS Vehicle Approval only (see Figure 24: NHVR PBS Approval).

Detail about the specific mass limits and permits is included on the pages for these truck codes by selecting the truck code number.



3.10 Queensland Performance Based Standards A-Doubles East of the Great Dividing Range

In Queensland, 36.5 metre road trains and AB Triples have very good access west of the Great Dividing Range.

East of the Dividing Range, the Queensland Class 2 Performance Based Standards A-Double (Toowoomba to Port of Brisbane) Authorisation Notice 2023 (No.1) (see Figure 26) allows 30 metre 11 Axle A-doubles to operate to Brisbane with a maximum mass of 81.5 tonnes when they have the following:

- NHVAS Mass (see Figure 15: NHVAS mass management sticker, look for the blue "Mass Management" banner on the sticker)
- NHVR PBS Vehicle Approval (see Figure 24: NHVR PBS Approval)
- A TMA GPS Tracking System (see 3.7 Higher mass limits (HML))

Due to the low 81.5 tonne mass limit under the notice limited to Brisbane, most grain truck apply for NHVR access permits to get up to an 85.0 tonne mass limit. The access permit must list specific roads to the destination and requires the same conditions as the notice. Care must be taken to check lower mass limits due to axle spacings of specific combinations into different Queensland



destinations. Both PBS and non-PBS combinations can get NHVR access permits to Gladstone and Mackay.



Figure 25: National Class 2 PBS Level 1 & 2a Truck & Dog Trailer Authorisation Notice 2024 (No.2)

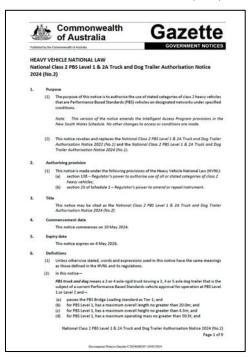
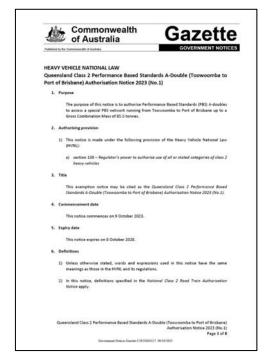


Figure 26: Queensland Class 2 PBS A-Double (Toowoomba to Port of Brisbane) Authorisation Notice 2023 (No.1)



3.11 National Class 2 Performance Based Standards (High Productivity) Authorisation Notice

The National Class 2 Performance Based Standards (High Productivity) Authorisation Notice 2024 (No.1) is a wide-ranging notice that improves access to the road network for grain trucks on the PBS Networks in NSW and Victoria (see Figure 27). It does not currently provide access on the Queensland or South Australia road networks.

Trucks operating under the notice must have a PBS Vehicle Approval (see Figure 24), and may also require a NHVR Access Permit (see 3.3 Truck length, heavy vehicle access and NHVR Access Permits) and GPS Tracking (see 3.7 – Higher mass limits (HML)).

Access for trucks operating under this notice is different between NSW and Victoria, and the applications for grain trucks is included below.

Last mile issues are with these trucks to grain sites and care must be taken to ensure access is possible to the site.

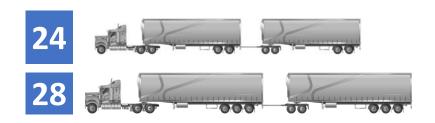


Figure 27: National Class 2 Performance Based Standards (High Productivity) Authorisation Notice 2024 (No.1)



3.11.1 NSW

Although the notice applies to quad axle groups, these are uncommon the grain industry, so the notice only applies to 30 metre 11 Axle A-doubles. The notice specifies it only applies to 2 axle dollies, so 12 Axle A-doubles are unable to operate under the notice.



3 Axle Prime Mover and 2 Axle Trailer and 2 Axle Dolly and 2 Axle Trailer

11 Axle Road Train

The trucks are permitted to operate on the PBS 2B network only (see Figure 28).

The most application of the notice for grain trucks is for trucks delivering to ports and domestic end users.

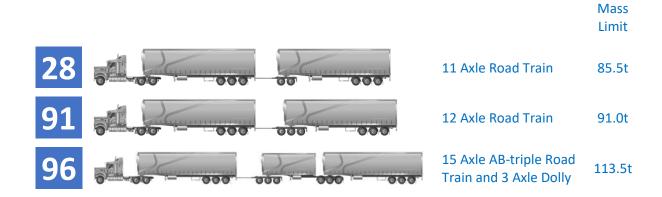


NHVR PBS 🛱 45 PBS A-double (with tandem axle dolly) Tier 3 Level 2B, up to 30m in length (GML, CML) DETAILS Network PBS 2B - Tier 3 mass - Reference Vehicle 1 + Access Instrument Productivity) Authorisation Notice 2024 (No.1) 14 Nov 2026 03 Jun 2024 Under the Notice, eligible PBS vehicles may operate up to the le the masses listed in their: Vehicle Approval (VA), or
 the network masses nom Under the Notice, eligible PBS vehicles may operate in jurisdictio participating in this Notice when access is approved for that configuration. Operators must ensure their vehicle meets all con including specific spacings, where given. Access under this Notice is governed by: the masses listed in a vehicle approval (VA)
 network mass limitations, as reflected in the approved mapping for that PBS level for each jurisdiction.

Figure 28: NSW PBS 2B Road Network on the NHVR National Network Map

3.11.2 Victoria

11 and 12 axle 30 metre A-doubles, and 15 Axle AB-triples can operate in Victoria under the notice.



To operate these trucks, the following conditions must be met:

- Display a NHVAS Mass Accreditation sticker see Figure 15: NHVAS mass management sticker
- Have a NHVR PBS Approval that meets the requirements of the Notice see Figure 24: NHVR PBS Approval
- GPS tracking with one or both of the following approved intelligent transport systems, approved by Transport Certification Australia (TCA):



- o On Board Mass Management Category B (OBM B); or
- On Board Mass Management Category C (OBM C)
- Enrolled in Telematics Monitoring Application (TMA).

Figure 29: Restricted Access Mass Limits on the NHVR National Network Map

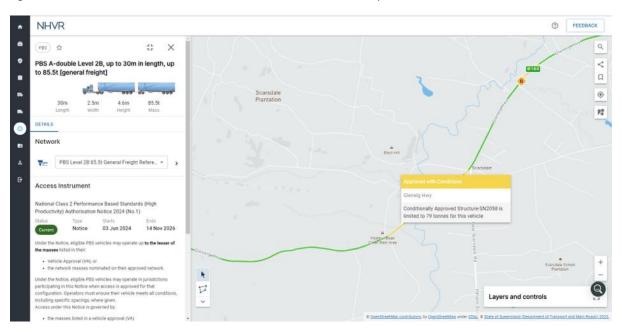
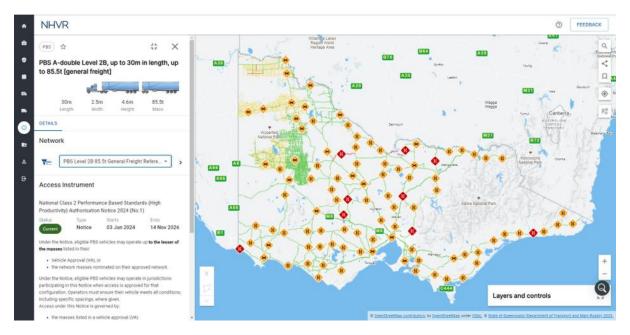


Figure 30: Victoria PBS Level 2B Mass - General Freight Road Network on the NHVR National Network Map



A risk with the PBS networks is there are lower mass limits (usually due to bridges) throughout the network, marked with orange and red dots on the PBS maps. It is difficult for GTSN members to know and understand these mass limits because trucks drive different routes with different permits due to these lower mass limits. Therefore, GTSN members apply mass limits at their specific load or unload point, and truck operators must manage the route mass between origin and destination.



The TMA Certificate (see Figure 21: Telematics Monitoring Application Certificate) does not specify if trucks have on board mass fitted and it is not possible to identify this. Therefore, GTSN members must rely on the driver declaration if they operate under the notice.

Due to the restrictions with the notice, many trucks operate under a NHVR access permit instead of operating under the notice (see Figure 8: Example NHVR access permit on roads that are not gazetted). The purpose of the NHVR access permits is to allow operators time to install the GPS tracking systems required under the notice.

A-doubles operate on the PBS Level 2B Mass – General Freight network. Access on this network is generally good, and GTSN members are working with Department of Transport to address last mile issues across the network.

The PBS 3A network allows the following higher masses:

- 12 Axle A Doubles (Code 91) PBS Level 3A General Freight
- 15 Axle AB-triples (code 96) operate on the PBS Level 3A General Freight AB-triple (up to 36.5m) network

Although some sections of this network allow full AB triple HML 113.50 tonne mass, entire journey access is limited. As the network access improves, AB triples are becoming more common in Victoria under this notice.

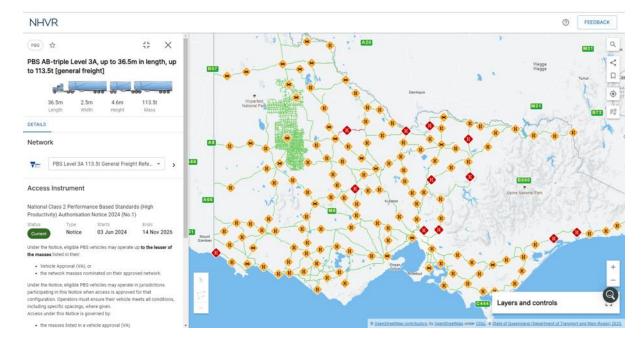


Figure 31: PBS Level 3A General Freight – AB-triple (up to 36.5m) Network on the NHVR National Network Map



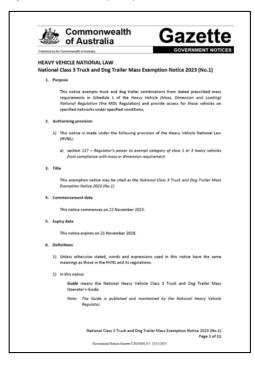
3.12 National Class 3 Truck and Dog Trailer Mass Exemption Notice

The following combinations can operate under heavy weights with the National Class 3 Truck and Dog Trailer Mass Exemption Notice 2023 (No.1), see Figure 32.

Figure 32: National Class 3 Heavy Vehicle 19m Truck and Dog Combinations



Figure 33: National Class 3 Truck and Dog Trailer Mass Exemption Notice 2023 (No.1)



These combinations have a 42.5 tonne GML and the notice (see Figure 33) allows heavier mass for trucks that comply with the requirements of it (e.g. axle spacing) and pay higher registration fees.

It is not reasonably practicable for bulk handlers to check axle spacings or registration payments, so the truck driver must ensure they meet all the requirements of the notice.



3.13 National Class 3 20m Long 3-axle Truck and 4-axle Dog Trailer Mass and Dimension Exemption Notice

The National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2) allows 3 Axle Trucks with 4 Axle Dog Trailers (Code 76) to operate to 57.50 tonnes on the PBS 2A road network when they have a PBS Vehicle Approval.

To simplify access for these trucks, the National Class 3 20m Long 3-axle Truck and 4-axle Dog Trailer Mass and Dimension Exemption Notice 2024 (No.1) (see Figure 34) allows the full 57.50 tonne PBS weight without a NHVR PBS Vehicle Approval.



3 Axle Rigid Truck and 4 Axle Dog Trailer

57.50 tonnes is only permitted on the PBS 2A network, otherwise a NHVR PBS access permit is required (see 3.3 Truck length, heavy vehicle access and NHVR Access Permits). Note:

- Councils may specify restrictions for the notice and detail about this is published on the NHVR website.
- GTSN members do not measure axle spacings to calculate lower mass limits because it is
 extremely complex and a safety risk. Truck operators with lower mass limits due to axle
 spacings must declare this to GTSN members when loading under this notice.

Figure 34: National Class 3 20m Long 3-axle Truck and 4-axle Dog Trailer Mass and Dimension Exemption Notice





3.14 South Australian 23 metre truck and dog notice

The purpose of the South Australia Class 3
Truck and Dog Trailer (up to 23m long)
Mass and Dimension Exemption Notice
2025 (No.1) is to exempt 23m truck and dog
trailer combinations operating in South
Australia from stated mass and dimension
limits – see Figure 35 and Figure 36.

A 23m truck and dog combination consists of a 3 axle truck towing a dog trailer with 3, 4 or 5 axles.

Figure 35: South Australia Class 3 Truck and Dog Trailer (up to 23m long) Mass and Dimension Exemption Notice 2025 (No.1)

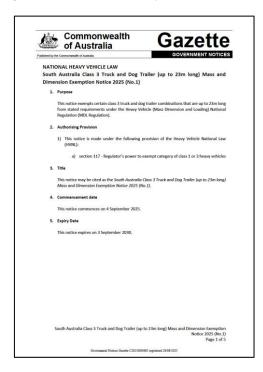


Figure 36: Truck Codes that can operate under the SA 23m Truck and Dog Trailer Notice

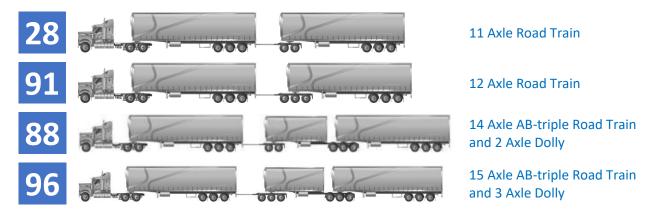
16			3 Axle Rigid Truck and 3 Axle Dog Trailer	48.0t
76		00 00	3 Axle Rigid Truck and 4 Axle Dog Trailer	55.5t
87	0-00	00 000	3 Axle Rigid Truck and 5 Axle Dog Trailer (PBS)	59.0t

Mass Limit



3.15 Victoria Road Train Hay & Grain Network

Road Trains and AB-triples operating in North-Western Victoria can operate at 36.5 metre length on the Victoria Hay and Grain Road network (see Figure 37). A less extensive Road Train Network also exists in this area, so grain trucks will use the Hay and Grain Network



A NHVR access permit is required to access the pre-approved network, and specific roads listing grain sites are required when last mile issues exist off the pre-approved network. See Figure 8: Example NHVR access permit on roads that are not gazetted.

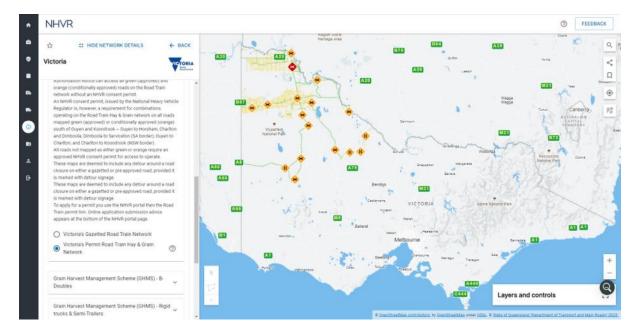


Figure 37: Victoria Hay & Grain Network for Road Trains and AB-triples on the NHVR National Network Map



3.16 Road friendly suspension (RFS)

Trucks without Load Sharing Suspension are very rare, all mass limits in this Truck Book include the Load Sharing Suspension concession where applicable.

Trucks that do not have load sharing suspension must deduct one tonne from all mass limits in this Truck Book.

3.16.1 Victorian road friendly suspension

In Victoria, trucks fitted with road friendly suspension (RFS) can operate under the Victoria Class 3 Road Friendly Suspension Mass Exemption Notice 2024 (No.1) – see Figure 38. The notice allows trucks fitted with RFS to operate to CML without having to have NHVAS mass management accreditation.

A Victorian road friendly suspension column is included on the GTSN Truck Chart and for each truck code in this Truck Book, with the allowable mass limits where applicable.

3.16.2 Twin steer truck road friendly suspension

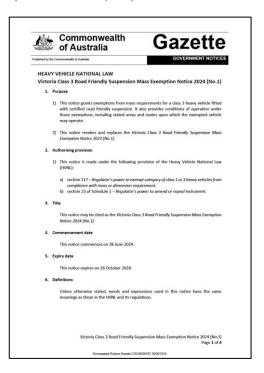
Since 1985 in Australia, all twin steer trucks have Load Sharing Suspension, which is designed to equally distribute the weight across the front axles of twin steer trucks – see Figure 39 for an example twin steer truck.

Note: Twin steer trucks are relatively uncommon bulk grain.

Figure 39: Example twin steer truck (Code 73 – 4 Axle Twin Steer Rigid Truck & 4 Axle Dog Trailer)



Figure 38: Victoria Class 3 Road Friendly Suspension Mass Exemption Notice 2024 (No.1)





3.17 Grain harvest management scheme (GHMS)

Trucks that load in paddocks during harvest often do not have facilities to accurately weigh trucks. Consequently, there is a large variance between the gross weight and the mass limit when trucks are unloaded at bulk handlers. This variance can lead to significant underloading and increased truck movements.

Currently, Qld, NSW, Vic and SA all administer a grain harvest management scheme, each with different truck combinations and mass limits. Generally, the objective of these schemes is to minimise underloading by allowing a higher harvest mass limit for ex-farm deliveries, and for the average gross weight to be at the General mass limits (GML).

Work is currently underway to harmonise harvest mass management schemes.

In every state, to participate in the GHMS, bulk handlers sign an undertaking with the transport regulator to ensure data pertaining to all harvest deliveries is reported. Regulators can use this data to identify adverse trends in potentially overloaded trucks to ask further questions of bulk handlers, truck companies and growers.

Additionally, bulk handler policies further contribute to dis-incentivise overloading. Examples include warning notices given to truck drivers when they overload, emails, letters and phone calls to growers about overloads and, in some instances, banning specific truck companies from delivery.

3.17.1 Queensland GHMS

The Queensland Class 3 Heavy Vehicle (Grain Harvest Management Scheme) Mass Exemption Notice 2024 (No.1) allows up to GML + 7.5% for deliveries from paddock to the designated bulk handler location – see Figure 40.

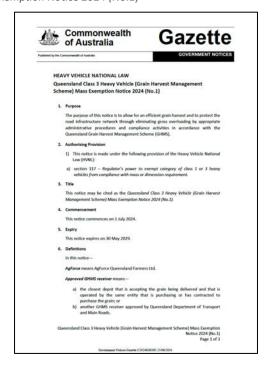
Key points with the Queensland harvest management scheme:

- The GHMS concession applies to most truck codes (PBS trucks are excluded)
- Trucks must display <u>the current</u> sticker the sticker colour changes every year see Figure
 41 for an example. The first 2 digits of the permit number indicate the year of validity
- AgForce publish information on their website about how the GHMS works that can be helpful to freight providers
- Rejection limits no longer apply TMR must be advised immediately when truck gross weights exceed specified limits
- Qld GHMS weights are maximum weights and 0.5t steer and 1.1 allowances do not apply when conditions are met
- PBS trucks do not qualify for GHMS
- The scheme expires on 30 May 2029.

For more information about truck and combination mass limits, refer to individual pages for each truck code, or the GTSN Truck Chart.



Figure 40: Queensland Class 3 Heavy Vehicle (GHMS) Mass Figure 41: AgForce Qld GHMS stickers Exemption Notice 2024 (No.1)





3.17.2 New South Wales GHMS

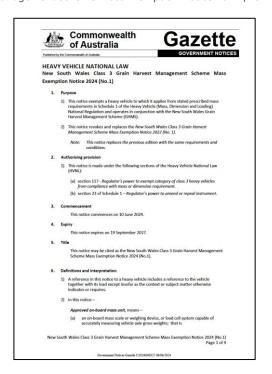
The New South Wales Class 3 Grain Harvest New South Wales Class 3 Grain Harvest Management Scheme Mass Exemption Notice 2024 (No. 1) – see Figure 42, can be complex and care must be taken with the mass limits.

Mass limits under the GHMS allow GML + 5%, or CML without NHVAS mass management accreditation, for 19 truck configurations. Although many configurations do not qualify for the scheme, by road volumes, most of the trucks that operate in NSW are represented.

Key points with the NSW Harvest Management Scheme:

- Trucks must have a copy of the notice electronic copies are acceptable
- Council participation is optional, and GHMS mass limits cannot be used until councils participate – all councils historically participate in grain growing areas

Figure 42: New South Wales Class 3 Grain Harvest Management Scheme Mass Exemption Notice 2024 (No. 1)



- Trailers with 'Super Single' tyres on trailers are not able to participate
- 12 Axle Semitrailers (code 12) and 9 Axle B-doubles (code 68) get 0.2 and 0.8 tonnes respectively when they have NHVAS mass management accreditation



This Notice expires on 19 September 2027.

3.17.3 NSW Farm Gate Scheme

NSW has a Farm Gate network allows access for trucks operating under the grain harvest management scheme on council roads when they are fitted with telematics. The scheme is designed to get higher productivity vehicles onto the local road network without having to apply for NHVR access permits.

Key points:

- Council participation in the scheme is optional, and care must be taken
- Trucks must be fitted with a GPS tracking device (i.e. TMA)
- The scheme is only for paddock to silo movements Trucks cannot load at GTSN member sites that do not have access under the scheme

See Figure 43 below for the map available on the NHVR National Network Map.

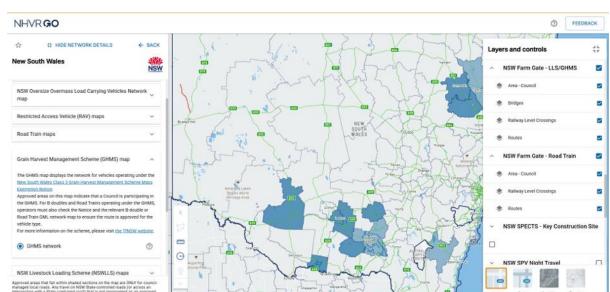


Figure 43: NSW Farm Gate Map with Participating Councils (August 2025)



3.17.4 Victorian GHMS

The Victoria Class 3 Grain Harvest Management Scheme Mass Exemption Notice 2022 (No.1) – see Figure 44, can be complex and care must be taken with the mass limits.

Mass limits under the GHMS allow GML + 5% for some truck configurations. Although many configurations do not qualify for the scheme, by road volumes, most of the trucks that operate in Victoria are represented.

Key points with the Victoria Harvest Management Scheme:

- Trucks must have a copy of the notice electronic copies are acceptable
- If the truck meets the conditions of the scheme, including that it is newer than 2002 and compliant with ADR80, they can automatically participate stickers are no longer issued to trucks. It is not reasonably practicable for GTSN members to determine if trucks can participate and truck drivers must declare if they can participate at delivery during harvest.
- This Notice expires on 26 September 2027.

3.17.5 South Australian GHMS

The South Australia Farm Gate Grain Transport Mass Exemption Notice 2025 (No.1) applies in South Australia – see Figure 45.

The notice provides for the loaded mass of a heavy vehicle to exceed the normal mass limit applicable of the vehicle / combination up to 105% for the first and second load carried by the heavy vehicle from a given paddock on a given day.

The exemption only applies in South Australia and is applicable to heavy vehicles transporting grain from the farm gate to a grain receiver when operating at:

- · General mass limits; or
- · Concessional mass limits; or
- · Higher mass limits; or
- The mass limits specified in a primary notice
- The scheme expires on 2 February 2030.

Note: PBS trucks and any combination with a pig trailer are not eligible to participate in the SA GHMS.



Figure 44: Victoria Class 3 Grain Harvest Management Scheme Mass Exemption Notice 2022 (No.1)

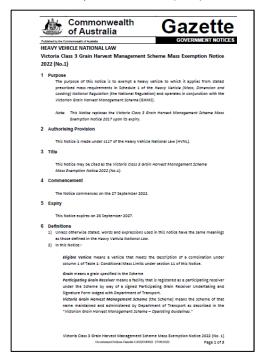
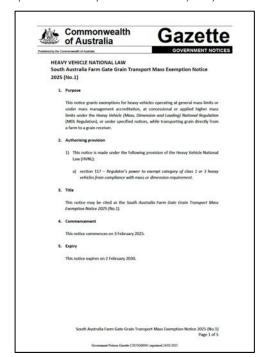


Figure 45: South Australian Heavy Vehicle Farm Gate Grain Transport Mass Exemption Notice 2025 (No.1)



3.18 National Class 1 Agricultural Vehicle and Combination Mass and Dimension Exemption Notice

National Class 1 Agricultural Vehicle and Combination Mass and Dimension Exemption Notice 2024 (No.1) is designed to allow farming equipment to be moved between sites for farming purposes.

The notice is not designed for grain transport, either during, or outside of harvest periods.

Below is an example of one of the vehicles that can operate under the Ag Notice. It is not permitted to deliver grain to bulk handlers.



Detailed Truck Codes



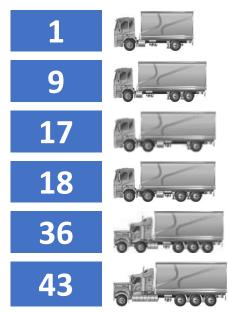
4 Detailed truck codes (by truck type)

The following sections 4.1 to 4.11 detail all the currently known truck configurations and combinations used in the grain industry and their legal mass limits.

4.1	Rigid Trucks	Page 51	3 Axle Rigid Truck
4.2	Truck & Dogs	Page 58	3 Axle Rigid Truck and 4 Axle Dog Trailer
4.3	Truck and Pig Trailers	Page 78	3 Axle Rigid Truck and 2 Axle Pig Trailer
4.4	Semitrailers	Page 88	6 Axle Semitrailer
4.5	B-doubles	Page 100	9 Axle B-double
4.6	AB-triples	Page 108	14 Axle AB-triple Road train and 2 Axle Dolly
4.7	Type 1 Road Trains	Page 119	11 Axle Road Train
4.8	B-triples	Page 135	12 Axle B-triple Road Train
4.9	Type 1 Road Trains with Dog Trailers	Page 140	3 Axle Rigid Truck and 2 x 4 Axle Dog Trailers (Road Train)
4.10	Type 2 Road Trains	Page 158	18 Axle 3 Axle Dolly Road Train (Type 2)
4.11	Type 2 Quads	Page 164	18 Axle ABB-quad Road Train and 3 Axle Dolly



4.1 Rigid Trucks



The maximum length of rigid trucks is 12.5 metres.

- 2 Axle Rigid Truck
- 3 Axle Rigid Truck
- 3 Axle Twin Steer Rigid Truck
- 4 Axle Twin Steer Rigid Truck
- 5 Axle Twin Steer Rigid Truck
- 4 Axle Tri Drive Rigid Truck



1

2 Axle Rigid Truck



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											16.12 ¹
NSW	45.00	-				,					-
Vic	15.00	16.00	_	-	-	✓	-		-		16.80
SA		-									15.75

¹ Steer allowance does not apply to QLD GHMS mass limits.



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3 Axle Rigid Truck



State	G ML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											24.18 ²
NSW	22.50	-	22.00			,					23.00
Vic	22.50	23.00	23.00	-	-	√	-		-		23.60
SA		-									GML 23.63 CML 24.15 HML 24.15

² Steer allowance does not apply to QLD GHMS mass limits.



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3 Axle Twin Steer Rigid Truck



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											21.50
NSW	20.003	-									
Vic	20.00³	21.00	-	_	-	-	_		-		_
SA		-									21.00

³ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.



4 Axle Twin Steer Rigid Truck

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State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld			28.50	28.50							29.56
NSW	27 504	-	28.00	-							28.005
Vic	27.504	28.00	28.00	38.00	_	-	_		-		28.90
SA		-	-	28.00							GML 28.88 HML 29.40

⁴ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.

⁵ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.



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5 Axle Twin Steer Rigid Truck



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld			32.00								33.32
NSW	31.00 ⁶	_	31.00						_7		
Vic	31.00	-	32.00	-	-	-	-		-		-
SA			-								32.55

⁶ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.

⁷ One of the rear axles is lazy and often raises when the truck is not loaded – tri drive trucks are PBS and none currently operate in grain.



43

4 Axle Tri Drive Rigid Truck

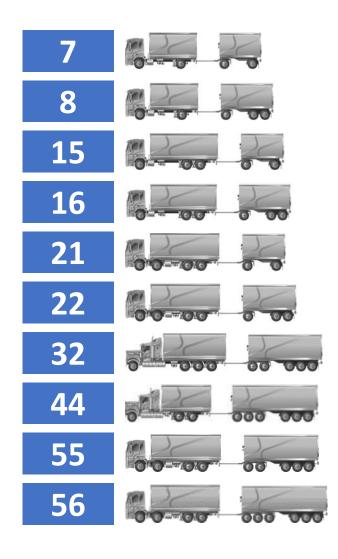


State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld			27.00								27.95 ⁸
NSW	26.00	-	27.00								
Vic	26.00	26.00		-	-	√	-		-		-
SA		-	-								27.30

 $^{^{\}rm 8}$ Steer allowance does not apply to QLD GHMS mass limits.

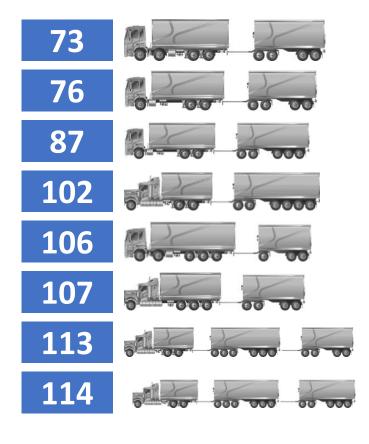


4.2 Truck & Dogs



- 2 Axle Rigid Truck and 2 Axle Dog Trailer
- 2 Axle Rigid Truck and 3 Axle Dog Trailer
- 3 Axle Rigid Truck and 2 Axle Dog Trailer
- 3 Axle Rigid Truck and 3 Axle Dog Trailer
- 4 Axle Twin Steer Rigid Truck and 2 Axle Dog Trailer
- 4 Axle Twin Steer Rigid Truck and 3 Axle Dog Trailer
- 4 Axle Tri Drive Rigid and 5 Axle Dog Trailer
- 3 Axle Rigid and 6 Axle Dog Trailer
- 4 Axle Twin Steer Rigid Truck and 5 Axle Dog Trailer (PBS)
- 4 Axle Twin Steer Rigid and 6 Axle Dog Trailer (PBS)





- 4 Axle Rigid Truck and 4 Axle Dog
- 3 Axle Rigid Truck and 4 Axle Dog Trailer
- 3 Axle Rigid Truck and 5 Axle Dog Trailer (PBS)
- 3 Axle Rigid Truck and 6 Axle Dog Trailer (PBS)
- Twin steer 5 Axle Rigid and 3 Axle Dog (PBS)
- 4 Axle Tri Drive Rigid Truck and 4 Axle Dog (PBS)
- 3 Axle Rigid and 6 Axle Dog and 4 Axle Dog (PBS)
- 3 Axle Rigid and 6 Axle Dog and 5 Axle Dog (PBS)



2 Axle Rigid Truck and 2 Axle Dog Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											32.25 ¹⁰
NSW	20.009	-				,					
Vic	30.009	30.50	-	-	-	✓	-		-		-
SA		-									31.50

⁹ Single tyres on dog trailer maximum weight of 27.0 tonnes.

¹⁰ Steer allowance does not apply to QLD GHMS mass limits.



2 Axle Rigid Truck and 3 Axle Dog Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	30.0011		31.00								32.2512
NSW	33.75					,					
Vic	41.00	-	-	_	-	√	-		-		-
SA	33.75										35.44

¹¹ HV(MDL)NR Schedule 1 Part 1 Imposition of general mass limits 2(4) The mass of a dog/pig trailer shall not exceed the mass of the motor truck towing it any time.

¹² Steer allowance does not apply to QLD GHMS mass limits.



3 Axle Rigid Truck and 2 Axle Dog Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											43.5413
NSW	40.50		41.50			,					41.00
Vic	40.50	-	41.50	-	-	√	-		-		42.50
SA											GML 42.53 CML 43.05

¹³ Steer allowance does not apply to QLD GHMS mass limits.



3 Axle Rigid Truck and 3 Axle Dog Trailer



State	GML	RFS	CML	HML	Notice ¹⁴	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML ¹⁵	PBS – HML	GHMS
Qld			43.50		45.00						45.70 ¹⁶
NSW	42.50	_		_	48.00	/	_	48.50	49.50	49.50	44.63
Vic	42.30	_	-	_	45.00	√	_	46.30	49.50	49.50	-
SA					45.00 / 48.00 ¹⁷						44.63

¹⁴ Mass limits apply for trucks that comply with *National Class 3 Truck and Dog Trailer Mass Exemption Notice 2023 (No.1)* – GHMS concessions do not apply to permit mass limit. Most trucks are engineered to load to the maximum.

¹⁵ To operate as a PBS truck, it must have a Vehicle Approval and comply with the requirements of the *National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2)*. PBS access is limited to the PBS 2A network – PBS 2A HML access is limited to the PBS 2A HML network only.

 $^{^{\}rm 16}$ Steer allowance does not apply to QLD GHMS mass limits.

¹⁷ South Australia Class 3 23m Truck and Dog Trailer Mass and Dimension Exemption Notice 2025 (No.1).



4 Axle Twin Steer Rigid Truck and 2 Axle Dog Trailer



State	GML ¹⁸	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											45.70
NSW	42.50		42.50								
Vic	42.50	-	43.50	-	-	-	_		-		-
SA											GML 44.63 CML 45.68

¹⁸ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.



4 Axle Twin Steer Rigid Truck and 3 Axle Dog Trailer

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State	GML ¹⁹	RFS	CML	HML	Notice ²⁰	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML ²¹	PBS – HML	GHMS
Qld					45.00						45.70
NSW	42.50		42.50		50.00			FO 0022	54.00	F4.00	44.63
Vic	42.50	-	43.50	-	45.00	-	_	50.00 ²²	54.00	54.00	-
SA					45.00						GML 44.63 CML 45.68 HML 47.25

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¹⁹ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer Twin Steer Truck Road Friendly Suspension section.

²⁰ Mass limits apply for trucks that comply with *National Class 3 Truck and Dog Trailer Mass Exemption Notice 2023 (No.1)* – GHMS concessions do not apply to permit mass limit. Most trucks are engineered to load to the maximum.

²¹ To operate as a PBS truck, it must have a Vehicle Approval and comply with the requirements of the *National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2)*. PBS access is limited to the PBS 2A network – PBS 2A HML access is limited to the PBS 2A HML network only.

 $^{^{22}}$ 50.00 tonne mass limit applies for PBS Level 1on PBS 2A network and 53.00 tonne mass limit applies on PBS 2B network.



4 Axle Tri Drive Rigid Truck and 5 Axle Dog (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML ²³	PBS – HML	GHMS
Qld											
NSW								63.00	65.00	60.50	
Vic	-	-	-	-	-	-	-	63.00	65.00	68.50	-
SA											

²³ To operate as a PBS truck, it must have a Vehicle Approval and comply with the requirements of the *National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2)*. PBS access is limited to the PBS 2A network in NSW and Victoria – PBS 2A HML access is limited to the PBS 2A HML network only. Qld can operate on 23 metre B double network.



3 Axle Rigid Truck and 6 Axle Dog Trailer (PBS)²⁴





State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											
NSW								62.00	65.00	60.50	
Vic	-	-	-	-	-	-	-	63.00	65.00	68.50	-
SA											

²⁴ To operate as a PBS truck, it must have a Vehicle Approval and access is possible without an access permit under the National Class 2 Performance Based Standards (Tier 1) Authorisation Notice 2022 (No.1). Some trucks may also have access permits for specific networks such as the B double network.



Truck and Dogs: 4 Axle Twin Steer Rigid Truck and 5 Axle Dog Trailer (PBS)

55



State	GML ²⁵	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML ²⁶	PBS – HML	GHMS
Qld											
NSW											
Vic	-	-	-	-	-	-	-	64.00	66.00	67.50	-
SA											

Can operate under PBS truck and dog notice.

²⁵ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.

²⁶ PBS Level 2 access is granted on B-double routes in NSW and Victoria – HML is permitted on HML routes only with IAP.



Truck and Dogs: 4 Axle Twin Steer Rigid Truck and 6 Axle Dog Trailer (PBS)²⁷



State	GML ²⁸	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML ²⁹	PBS – HML	GHMS
Qld								67.50	70.00	72.00	
NSW								67.50	70.00	73.00	
Vic	-	-	-	-	-	-	-	-	-	-	-
SA								67.50	70.00	73.00	

²⁷ To operate as a PBS truck, it must have a Vehicle Approval and have a NHVR Access Permit specifying the network and road access - cannot operate under PBS truck and dog notice.

²⁸ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer Twin Steer Truck Road Friendly Suspension section.

²⁹ Maximum PBS weights are restricted to specific roads and care should be taken to check permit. On B-double roads in NSW and Qld PBC = 66.40 tonnes and PBH = 69.90 tonnes.



4 Axle Twin Steer Rigid Truck and 4 Axle Dog Trailer³⁰



State	GML ³¹	RFS	CML	HML	Notice ³²	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											45.70
NSW	42.50		42.50		50.00			-			
Vic	42.50	-	43.50	-	50.00	-	-	62.00	-	-	-
SA								-			GML 44.63 CML 45.68

³⁰ To operate as a PBS truck, it must have a Vehicle Approval and have a NHVR Access Permit specifying the network and road access - cannot operate under PBS truck and dog notice.

³¹ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer Twin Steer Truck Road Friendly Suspension section.

³² Mass limits apply for trucks that comply with *National Class 3 Truck and Dog Trailer Mass Exemption Notice 2023 (No.1)* – GHMS concessions do not apply to permit mass limit. Most trucks are engineered to load to the maximum.



3 Axle Rigid Truck and 4 Axle Dog Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML ³³	PBS – HML	GHMS
Qld											45.70 ³⁷
NSW	42.50		42.50		50.00 ³⁴			56.00	F7.50		44.63
Vic	42.50	_	43.50	-	55.50 ³⁵ 57.50 ³⁶	√	-	56.00	57.50	_	44.60
SA											GML 44.63 CML 45.68

³³ To operate as a PBS truck, it must have a Vehicle Approval and comply with the requirements of the *National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2)*. PBS CML mass requires NHVAS Mass. Access is limited to the PBS 2A network

³⁴ Mass limits apply for trucks that comply with the *National Class 3 Truck and Dog Trailer Mass Exemption Notice 2023 (No.1)* – GHMS concessions do not apply to permit mass limit. It is not reasonably practicable to check lower mass limits due to shorter axle spacings.

³⁵ South Australia Class 3 23m Truck and Dog Trailer Mass and Dimension Exemption Notice 2025 (No.1).

³⁶ Mass Limits apply for trucks that comply with the *National Class 3 20m Long 3-axle Truck and 4-axle Dog Trailer Mass and Dimension Exemption Notice 2024 (No. 1) on the PBS 2A Network only.* It is not reasonably practicable to check lower mass limits due to shorter axle spacings. NHVAS mass is required in NSW and Qld. Victoria requires NHVAS Mass or Road Friendly Suspension.

³⁷ Steer allowance does not apply to QLD GHMS mass limits.



3 Axle Rigid Truck and 5 Axle Dog Trailer (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML ³⁸	PBS – CML ³⁹	PBS – HML ⁴⁰	GHMS
Qld											
NSW					-	-			C4 = 0		
Vic	-	-	-	-			-	59.50	61.50	63.00	-
SA					59.0041	√					

³⁸ To operate as a PBS truck, it must have a Vehicle Approval and comply with the requirements of the *National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2)*. PBS access is limited to the PBS 2A network

³⁹ PBS CML requires NHVAS Mass

⁴⁰ TMA is required in Qld and IAP or TMA is required in NSW. Trucks in Victoria and South Australia require NHVAS only to operate to PBS. PBS 2A HML access is limited to the PBS 2A HML network only.

⁴¹ South Australia Class 3 23m Truck and Dog Trailer Mass and Dimension Exemption Notice 2025 (No.1)



3 Axle Rigid and 2 Axle Dolly and 4 Axle Trailer (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											
NSW									-		
Vic ⁴²	-	-	-	-	-	-	-	59.50	61.50	67.50	_
SA									-		

⁴² Truck has maximum 63.0 tonne mass limit on the PBS 2A network only with vehicle approval and access permit



Twin steer 5 Axle Rigid and 3 Axle Dog (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	-							-	-	-	
NSW	50.0043							56.6044	58.00 ⁴⁵	59.50 ⁴⁶	
Vic		-	_	_	_	-	-				-
SA	_							_	-	-	

⁴³ The vehicle is permitted to operate at General Mass Limits (GML) 50.0 tonnes Gross Combination Mass on all state controlled roads approved under 'PBS Level 1 GML and CML Network' in New South Wales.

⁴⁴ The vehicle is permitted to operate at General Mass Limits (GML) 56.5 tonnes Gross Combination Mass on all state controlled roads approved under 'PBS Level 2A GML and CML Network' in New South Wales.

⁴⁵ The vehicle is permitted to operate at Concessional Mass Limits (CML) 58.0 tonnes Gross Combination Mass on all state controlled roads approved under 'PBS Level 2A GML and CML Network' in New South Wales.

⁴⁶ The vehicle is permitted to operate at Higher Mass Limits (HML) 59.5 tonnes Gross Combination Mass on all state controlled roads approved under 'PBS Level 2A HML Network' in New South Wales.



4 Axle Tri Drive Rigid Truck and 4 Axle Dog (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML ⁴⁷	PBS – CML	PBS – HML	GHMS
Qld											
NSW											
Vic	-	-	-	-	50.50	√	-	59.50	61.50	63.00	-
SA											

⁴⁷ To operate as a PBS truck, it must have a Vehicle Approval and comply with the requirements of the *National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2)*. PBS access is limited to the PBS 2A network – PBS 2A HML access is limited to the PBS 2A HML network only.



3 Axle Rigid Truck and 6 Axle Trailer and 4 Axle Dog (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML ⁴⁸	PBS – CML	PBS – HML	GHMS
Qld											
NSW											
Vic	-	-	-	-	-	-	-	-	-	-	-
SA											

⁴⁸ To operate as a PBS truck, it must have a Vehicle Approval and comply with the requirements of the *National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2024 (No.2)*. PBS access is limited to the PBS 2A network – PBS 2A HML access is limited to the PBS 2A HML network only.



3 Axle Rigid Truck and 6 Axle Trailer and 5 Axle Dog (PBS)

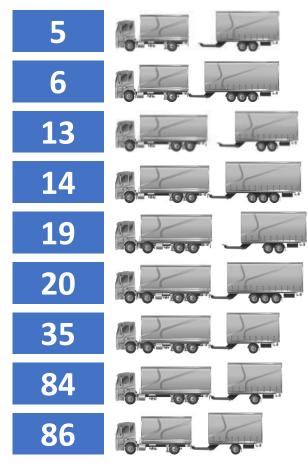


State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld								-	105.00 49	-	
NSW								-	98.8050	-	
Vic	-	-	-	-	-	-	-				-
SA									-		

⁴⁹ Truck can operate at limited mass on the Qld type 1 road train network with access permit.

⁵⁰ CML The vehicle is permitted to operate at Concessional Mass Limits (CML) 98.8 tonnes Gross Combination Mass on all state controlled roads approved under 'PBS Level 3A GML and CML Network' in New South Wales with access permit.





- 2 Axle Rigid Truck and 2 Axle Pig Trailer
- 2 Axle Rigid Truck and 3 Axle Pig Trailer
- 3 Axle Rigid Truck and 2 Axle Pig Trailer
- 3 Axle Rigid Truck and 3 Axle Pig Trailer
- 4 Axle Twin Steer Rigid Truck and 2 Axle Pig Trailer
- 4 Axle Twin Steer Rigid Truck and 3 Axle Pig Trailer
- 4 Axle Twin Steer Rigid Truck and 1 Axle Pig Trailer
- 3 Axle Rigid Truck and 1 Axle Pig Trailer
- 2 Axle Rigid Truck and 1 Axle Pig Trailer



2 Axle Rigid Truck and 2 Axle Pig Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											32.2551
NSW	20.00					,					
Vic	30.00	-	-	-	-	✓	-		-		-
SA											

⁵¹ Steer allowance does not apply to QLD GHMS mass limits.



2 Axle Rigid Truck and 3 Axle Pig Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	30.00										32.25 ⁵²
NSW	33.00					/					
Vic	20.00	-	-	-	-	✓	-		-		-
SA	30.00										

⁵² Steer allowance does not apply to QLD GHMS mass limits.



3 Axle Rigid Truck and 2 Axle Pig Trailer





State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											40.3054
NSW	27.5052					,					
Vic	37.5053	-	-	-	-	✓	-		-		-
SA											

⁵³ Single tyres on pig trailer maximum weight of 31.0mt.

⁵⁴ Steer allowance does not apply to QLD GHMS mass limits.



3 Axle Rigid Truck and 3 Axle Pig Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											43.5455
NSW	40.50					,					
Vic	40.50	-	-	-	-	✓	-		-		-
SA											

⁵⁵ Steer allowance does not apply to QLD GHMS mass limits.



4 Axle Twin Steer Rigid Truck and 2 Axle Pig Trailer





State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											45.70
NSW	42 5056										
Vic	42.5056	-	-	-	-	-	-		-		-
SA											

⁵⁶ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.



4 Axle Twin Steer Rigid Truck and 3 Axle Pig Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											45.70
NSW											
Vic	42.5057	-	-	-	-	-	-		-		-
SA											

⁵⁷ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.



4 Axle Twin Steer Rigid Truck and 1 Axle Dog Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											38.70
NSW	0.0000										
Vic	36.0058	-	-	-	-	-	-		-		-
SA											

⁵⁸ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.



3 Axle Rigid Truck and 1 Axle Pig Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											33.30 ⁵⁹
NSW	24.00					,					
Vic	31.00	-	-	-	-	√	-		-		-
SA											

⁵⁹ Steer allowance does not apply to QLD GHMS mass limits.



2 Axle Rigid Truck and 1 Axle Pig Trailer

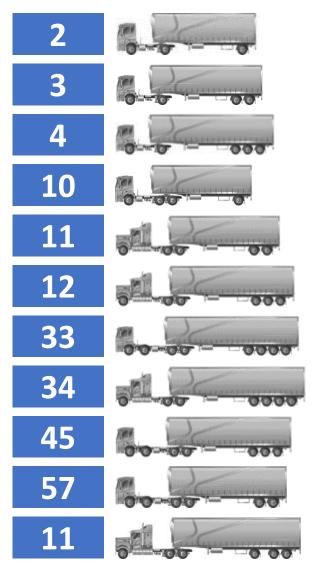


State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											25.26 ⁶⁰
NSW	22.50					,					
Vic	23.50	-	-	-	-	√	-		-		-
SA											

⁶⁰ Steer allowance does not apply to QLD GHMS mass limits.



4.4 Semitrailers



- 3 Axle Semitrailer
- 4 Axle Semitrailer
- 5 Axle Semitrailer
- 4 Axle Semitrailer
- 5 Axle Semitrailer
- 6 Axle Semitrailer
- 4 Axle Prime Mover and 4 Axle Semitrailer (PBS)
- 3 Axle Prime Mover and 4 Axle Semitrailer (PBS)
- 7 Axle Twin Steer Semitrailer
- 4 Axle Twin Steer Prime Mover and 2 Axle Semitrailer (PBS)
- 3 Axle Prime Mover and 3 Axle (1 2) Group Trailer



2

3 Axle Semitrailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											25.80 ⁶¹
NSW	24.00	-									-
Vic	24.00	26.00	-	-	-	√	-		-		27.30
SA		-									25.20

⁶¹ Steer allowance does not apply to QLD GHMS mass limits.



3

4 Axle Semitrailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld			32.50								33.9062
NSW	21.50	_		-		,					32.00
Vic	31.50	32.50	32.00	33.00	_	√	-		-		34.10
SA		-		32.00							GML 33.08 CML 33.60 HML 33.60

⁶² Steer allowance does not apply to QLD GHMS mass limits.



5 Axle Semitrailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld			26.00	27.50							37.63 ⁶³
NSW	35.00	-	36.00	37.50		,					36.63
Vic	35.00	36.00	37.00	38.50	-	√	-		-		37.80
SA		-	36.00	37.50							GML 36.75 CML 37.80 HML 39.38

⁶³ Steer allowance does not apply to QLD GHMS mass limits.



10

4 Axle Semitrailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld			32.50								33.8665
NSW	21.50	-				,	√ 64				
Vic	31.50	33.00	33.00	-	-	√			-		-
SA		-	32.00				√ 66				GML 33.08 CML 33.60

⁶⁴ Applies on the B-double network or greater only

⁶⁵ Steer allowance does not apply to QLD GHMS mass limits.

⁶⁶ Applies on the PBS 1A network or greater only



5 Axle Semitrailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											41.93 ⁶⁸
NSW	30.00	-	40.00	-		,	√ 67				40.00
Vic	39.00	40.00	40.00		-	√			-		41.00
SA		-		40.00			✓69				GML 40.95 CML 42.00 HML 42.00

⁶⁷ Applies on the B-double network or greater only

⁶⁸ Steer allowance does not apply to QLD GHMS mass limits.

⁶⁹ Applies on the PBS 1A network or greater only



6 Axle Semitrailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											45.70 ⁷¹
NSW	42.50	-	42.50	45.50		,	√ 70				44.6372
Vic	42.50	43.00	43.50	45.50	-	√			-		44.60
SA		-					√ 73				GML 44.63 CML 45.68 HML 47.78

⁷⁰ Applies on the B-double network or greater only

⁷¹ Steer allowance does not apply to QLD GHMS mass limits.

⁷² Trucks with NHVAS Mass get an additional 0.2 tonnes.

⁷³ Applies on the PBS 1A network or greater only



4 Axle Prime Mover and 4 Axle Semitrailer (PBS)



State	GML ⁷⁴	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											
NSW	42 5075							47.50	40.50	FF 0076	-
Vic	42.50 ⁷⁵	-	-	-	-	-	-	47.50	48.50	55.00 ⁷⁶	
SA											44.63

⁷⁴ Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.

⁷⁵ A quad-axle semitrailer combination with a quad-axle group mass that does not exceed 20 tonnes is eligible for General Access, provided it complies dimensionally with the Heavy Vehicle (Mass, Dimension and Loading) National Regulation – length 19 m, width 2.5 m, height 4.3 m and mass 42.5 tonnes. For more information see NHVR publication *PBS combinations fitted with quad-axle groups, June 2017*.

⁷⁶ PBS Vehicle Approval required. Lower mass limit (i.e. 50.0t) may apply depending on NHVR Access Permit.



3 Axle Prime Mover and 4 Axle Trailer (PBS)



State	GML	RFS	CML	HML	Notice	0.5t	1.1t	PBS –	PBS –	PBS –	GHMS
						Steer	Steer	GML	CML	HML	
Qld									44.0079		
NSW	42.50 ⁷⁷						√ 78	43.00	44.00	50.5080	-
Vic	42.50	_	_	_	-	V		45.00	46.0081	30.30	
SA							√ 82		44.0083		44.63

⁷⁷ A quad-axle semitrailer combination with a quad-axle group mass that does not exceed 20 tonnes is eligible for General Access, provided it complies dimensionally with the Heavy Vehicle (Mass, Dimension and Loading) National Regulation – length 19 m, width 2.5 m, height 4.3 m and mass 42.5 tonnes. For more information see NHVR publication *PBS combinations fitted with quad-axle groups, June 2017*.

⁷⁸ Applies on the B-double network or greater only

⁷⁹ PBS Vehicle Approval required. Access granted examples with NHVR Access Permit on the NSW PBS 1A network.

⁸⁰ PBS Vehicle Approval required. Access granted examples with NHVR Access Permit on the NSW PBS 1A HML network, or on specific roads. Lower mass limit of 46.0t may apply depending on NHVR Access Permit.

⁸¹ PBS Vehicle Approval required. Check access permit for wording that vehicle is permitted to operate at 46.0 tonnes Gross Combination Mass on the PBS Quad Semi Trailer Network in Victoria.

 $^{^{\}rm 82}$ PBS Vehicle Approval required. Applies on the PBS 1A network or greater only

⁸³ PBS Vehicle Approval required. Access granted examples with NHVR Access Permit on the NSW PBS 1A network.



7 Axle Twin Steer Semitrailer





State	GML ⁸⁴	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											49.98
NSW	46.00		46.00	49.50							
Vic	46.00	-			-	-	-		-		-
SA			-	-							48.83

⁸⁴ To load to the maximum gross weight, care must be taken to not exceed the axle / axle group mass limits. GML for axle groups: Twin Steer 11.0t (load sharing suspension required); tandem drive 16.5t; tri-axle semitrailer 20.0t. For more information see NHVR Information Sheet <u>Mass limits for twin steer prime movers towing tri-axle</u> semitrailers. Trucks that do not have load sharing suspension must subtract one (1) tonne from the mass limit – refer <u>Twin Steer Truck Road Friendly Suspension</u> section.



4 Axle Twin Steer Prime Mover with 2 Axle Semitrailer



State	GML ⁸⁵	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	42.50		43.50								45.70
NSW			40.00								
Vic	39.00	-	40.00	-	-	-	-		-		-
SA			-								40.95

⁸⁵ Subtract one tonne from the mass limit for non-load sharing combinations.



3 Axle Prime Mover and 3 Axle (1 2) Group Trailer⁸⁶

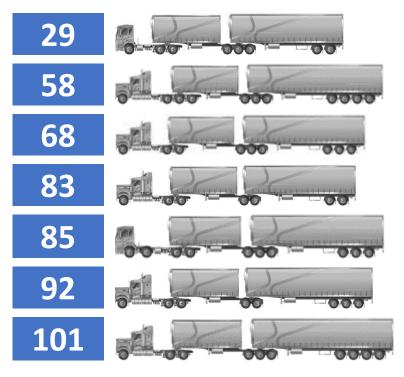


State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											
NSW											
Vic						-					
SA											

⁸⁶ Access is extremely limited, and truck must have a PBS Vehicle Approval and Access Permit



4.5 B-doubles



8 Axle B-double

Tri-Quad B-double (PBS)

9 Axle B-double

7 Axle B-double

Twin Steer 10 Axle B-double

8 Axle B-double

3 Axle Prime Mover and 3 Axle A Trailer and 4 Axle B Trailer



8 Axle B-double



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld							✓87				63.4388
NSW	F0.00		61.00	62.50			✓89				
Vic	59.00	59.50	61.00	62.50	-	√	✓90		-		-
SA		-					√ 91				GML 61.95 CML 64.05 HML 65.63

⁸⁷ Queensland 25/26 metre B-double Network

 $^{^{\}rm 88}$ Steer allowance does not apply to QLD GHMS mass limits.

⁸⁹ New South Wales GML Type 1 A-double Network

⁹⁰ Victoria Road Train Network – note this is northern Victoria only and not the HPFV network

⁹¹ South Australia 26m B-double (GML) Network



Tri-Quad B-double (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld								62.50	65.00 ⁹²	68.50 ⁹³	
NSW								63.00	65.00 ⁹⁴	68.50 ⁹⁵	
Vic	-	-	-	-	-	-	-				-
SA								-	-	-	

⁹² QLM1 Access: Vehicle Permitted to operate on B-double Routes.

⁹³ QLM2 Access: Vehicle Permitted to operate on B-double HML Routes.

⁹⁴ QLM1 Access: Vehicle permitted to operate on all state controlled roads approved under the 'PBS Level 2A GML and CML Network in NSW.

⁹⁵ QLM2 Access: Vehicle permitted to operate on all state controlled roads approved under the 'PBS Level 2A GML and CML HML Network in NSW.



9 Axle B-double



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld							√ 96				67.19 ⁹⁷
NSW	62.50	-	64.50	68.00		,	✓98				65.63 ⁹⁹
Vic	62.50	63.00	64.50	68.00	-	√	√ 100		-		65.60
SA		-					√ 101				GML 65.63 CML 67.73 HML 71.40

⁹⁶ Queensland 25/26 metre B-double Network

⁹⁷ Steer allowance does not apply to QLD GHMS mass limits.

⁹⁸ New South Wales GML Type 1 A-double Network

⁹⁹ Trucks with NHVAS Mass get an additional 0.8 tonnes

 $^{^{100}}$ Victoria Road Train Network – note this is northern Victoria only and not the HPFV network

¹⁰¹ South Australia 26m B-double (GML) Network



7 Axle B-double



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS ¹⁰²
Qld							√ 104				59.66105
NSW	FF F0	-	F7.00		50.00		√ 106				57.00
Vic	55.50	57.00	57.00		103	√	√ ¹⁰⁷		-		58.30
SA		-		57.00			√ ¹⁰⁸				GML 58.28 CML 59.85 HML 59.85

¹⁰² On routes with no B-double access, GHMS mass limits are as follows: Qld = 53.70t; NSW and Vic = 52.50t.

 $^{^{103}}$ On general access (non B-double) routes GML = 50.00t and CML = 51.00t.

¹⁰⁴ Queensland 25/26 metre B-double Network

 $^{^{\}rm 105}$ Steer allowance does not apply to QLD GHMS mass limits.

¹⁰⁶ New South Wales GML Type 1 A-double Network

 $^{^{107}}$ Victoria Road Train Network – note this is northern Victoria only and not the HPFV network

¹⁰⁸ South Australia 26m B-double (GML) Network



Twin Steer 10 Axle B-double



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											67.18
NSW	62.50		64.50	69.00							
Vic	62.50	-	64.50	68.00	-	-	-		-		-
SA											GML 65.63 CML 67.73 HML 71.40



8 Axle B-double¹⁰⁹



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld		_					√ 110				63.43
NSW	59.00		61.00	62.50	_	√	√ 112		-		
Vic		59.50	02.00	02.00		v	√ 113				-
SA		-					√ 114				GML 61.95 CML 64.05 HML 65.63

¹⁰⁹ The first and second trailers are interchangeable.

¹¹⁰ Queensland 25/26 metre B-double Network

 $^{^{\}rm 111}$ Steer allowance does not apply to QLD GHMS mass limits.

¹¹² New South Wales GML Type 1 A-double Network

 $^{^{113}}$ Victoria Road Train Network – note this is northern Victoria only and not the HPFV network

¹¹⁴ South Australia 26m B-double (GML) Network



3 Axle Prime Mover and 3 Axle A Trailer and 4 Axle B Trailer (PBS)¹¹⁵

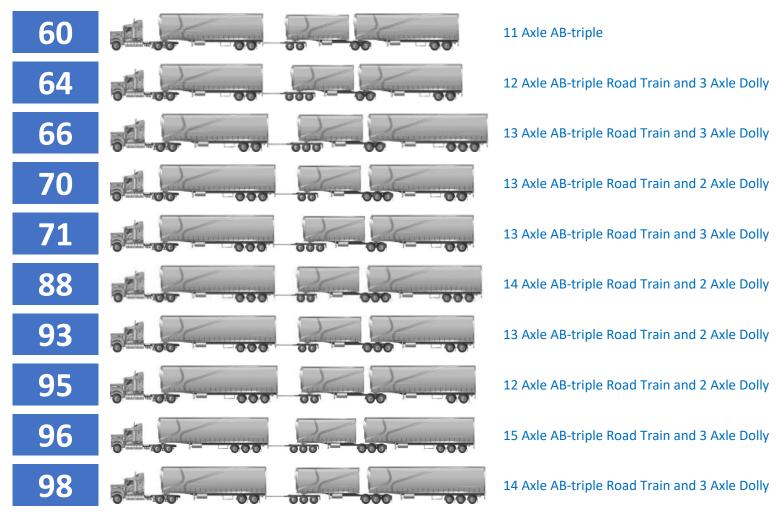


State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											
NSW											
Vic						-					
SA											

¹¹⁵ No PBS access permits are known to exist with grain trucks. A quad axle group is excluded under the National B-double Notice: Conditions – Quad axle group restriction: An eligible vehicle operating under this Schedule may not have a quad axle group on any its components when operating on a State controlled road.



4.6 AB-triples





11 Axle AB-triple





State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	88.50		91.50			√	√				95.14
NSW		_	90.50	_	_	V	•		_		
Vic	-		-			-	-				-
SA ¹¹⁷	88.50		90.50			√	✓				GML 92.93 CML 95.03

 $^{^{\}rm 116}$ Steer allowance does not apply to QLD GHMS mass limits.

¹¹⁷ NHVR Access Permit required to operate in South Australia.



12 Axle AB-triple Road Train and 3 Axle Dolly



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	02.00		95.00	06 50		,					98.90
NSW	92.00		94.00	96.50		√	✓				
Vic ¹²⁰	-	-	-	-	_	-	-		-		-
SA ¹²¹	92.00		94.00	96.50		√	√				GML 96.60 CML 98.70 HML 101.33

¹¹⁸ CML AB-triples in Qld get another 1.0 tonne.

¹¹⁹ Steer allowance does not apply to QLD GHMS mass limits.

¹²⁰ NHVR Access Permit required to operate in Victoria.

¹²¹ NHVR Access Permit required to operate in South Australia.



13 Axle AB-triple Road Train and 3 Axle Dolly¹²²



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	95.50		98.50	102.00		√	√				102.66
NSW		_	97.50		_	v	•		_		
Vic ¹²⁵	-		-	-		-	-				-
SA ¹²⁶	95.50		97.50	102.00		√	√				GML 100.28 CML 102.38 HML 107.10

¹²² OK to swap the tandem/tri trailers to have the same mass limits.

 $^{^{\}rm 123}$ CML AB-triples in Qld get another 1.0 tonne.

¹²⁴ Steer allowance does not apply to QLD GHMS mass limits.

¹²⁵ NHVR Access Permit required to operate in Victoria.

¹²⁶ NHVR Access Permit required to operate in South Australia.



13 Axle AB-triple Road Train and 2 Axle Dolly 127



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	95.50		98.50	102.00		√	√				102.66 129
NSW		_	97.50		_	·			_		
Vic ¹³⁰	-		-	-		-	-				-
SA ¹³¹	95.50		97.50	102.00		√	√				GML 100.28 CML 102.38 HML 107.10

¹²⁷ Permitted to swap the tandem/tri trailers to have the same mass limits.

 $^{^{\}rm 128}$ CML AB-triples in Qld get another 1.0 tonne.

¹²⁹ Steer allowance does not apply to QLD GHMS mass limits

¹³⁰ NHVR Access Permit required to operate in Victoria.

¹³¹ NHVR Access Permit required to operate in South Australia.



13 Axle AB-triple Road Train and 3 Axle Dolly



State	GML	RFS	CML	HML	Notice	0.5t	1.1t	PBS –	PBS –	PBS –	GHMS
						Steer	Steer	GML	CML	HML	
Qld	95.50		98.50	102.00		√	√				102.66
NSW		_	97.50	100.50134	_				-		
Vic	-		-	-		-	-				-
SA ¹³⁵	95.50		97.50	100.50		√	√				GML 100.28 CML 102.38 HML 107.10

¹³² CML AB-triples in Qld get another 1.0 tonne.

¹³³ Steer allowance does not apply to QLD GHMS mass limits.

¹³⁴ HML is reduced under a Class 2 permit issued by the NHVR.

¹³⁵ NHVR Access Permit required to operate in South Australia.



14 Axle AB-triple Road Train and 2 Axle Dolly



State	GML	RFS	CML	HML	Notice	0.5t	1.1t	PBS –	PBS –	PBS –	GHMS
						Steer	Steer ¹³⁶	GML	CML	HML	
Qld			102.00137								106.43
NSW	99.00	-		107.50	-	√	✓		-		104.00
Vic ¹³⁹			101.00								-
SA ¹⁴⁰											GML 103.95 CML 106.05 HML 112.88

¹³⁶ Currently restricted to max GMC of 108.00 tonnes in South Australia

 $^{^{\}rm 137}$ CML AB-triples in Qld get another 1.0 tonne because GML is heavier than 80 tonnes.

¹³⁸ Steer allowance does not apply to QLD GHMS mass limits.

¹³⁹ NHVR Access Permit required to operate in Victoria

¹⁴⁰ Access permitted on PBS 3A Network under the National Class 2 Authorisation Notice 2025 (No.1).



13 Axle AB-triple Road Train and 2 Axle Dolly 141



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	95.50		98.50	102.00		√	√				102.66
NSW		_	97.50		_	v	•		_		
Vic	-		-	-		-	-				-
SA ¹⁴⁴	95.50		97.50	102.00		√	√				GML 100.28 CML 102.38 HML 107.10

¹⁴¹ All trailers are interchangeable - axles on the dolly cannot be changed

¹⁴² CML AB-triples in Qld get another 1.0 tonne.

¹⁴³ Steer allowance does not apply to QLD GHMS mass limits.

¹⁴⁴ NHVR Access Permit required to operate in South Australia.



12 Axle AB-triple and 2 Axle Dolly 145



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	02.00		95.00	06.50		,					98.90
NSW	92.00		94.00	96.50		√	√				
Vic	-	-	-	-	_	-	-		-		-
SA ¹⁴⁸	92.00		94.00	96.50		√	√				GML 96.60 CML 98.70 HML 101.33

 $^{^{\}rm 145}$ Permitted to swap the tandem/tri trailers to have the same mass limits.

¹⁴⁶ CML AB-triples in Qld get another 1.0 tonne.

¹⁴⁷ Steer allowance does not apply to QLD GHMS mass limits.

¹⁴⁸ NHVR Access Permit required to operate in South Australia.



15 Axle AB-triple Road Train and 3 Axle Dolly



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	102.50		105.50149	113.00		√	√		_		110.18
NSW	102.30	_	104.50	113.00	_	V	V				107.63
Vic ¹⁵¹	-		-	-		-	-	103.00	105.00	113.50	-
SA ¹⁵²	102.50		104.50	113.00		√	✓				GML 107.63 CML 109.73 HML 118.65

¹⁴⁹ CML AB-triples in Qld get another 1.0 tonne because GML is heavier than 80 tonnes.

¹⁵⁰ Steer allowance does not apply to QLD GHMS mass limits.

¹⁵¹ Can operate in Victoria on the PBS 3A network. For further detail on permits required, see 3.11.2 National Class 2 Performance Based Standards (High Productivity) Authorisation Notice Victoria

¹⁵² Access permitted on PBS 3A Network under the National Class 2 Authorisation Notice 2025 (No.1)

¹⁵³ GCM of prime mover restricted to max 110.00t.



AB-triples:

14 Axle AB-triple¹⁵⁴



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	99.00		102.00	107.50		√	√				106.43 155
NSW		_	101.00	107.00	_	V	V		_		
Vic	-		-	-		-	-				-
SA ¹⁵⁶	99.00		101.00	107.50		√	√				GML 103.95 CML 106.05 HML 112.88

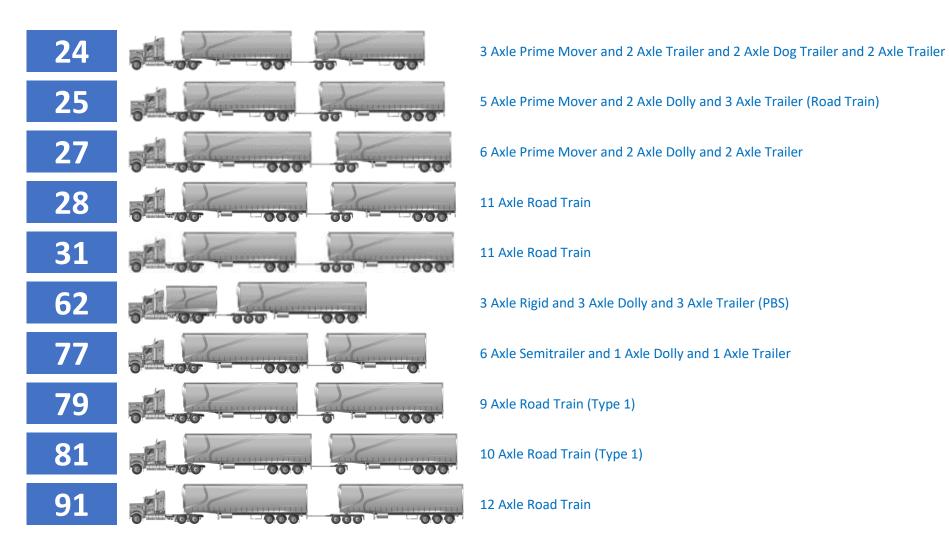
¹⁵⁴ Permitted to swap the tandem/tri trailers to have the same mass limits.

¹⁵⁵ Steer allowance does not apply to QLD GHMS mass limits.

¹⁵⁶ NHVR Access Permit required to operate in South Australia.



4.7 Type 1 Road Trains







- 3 Axle Rigid and 3 Axle Dolly and 3 Axle A Trailer and 3 Axle B Trailer (PBS)
- 3 Axle Prime Mover and 3 Axle (1 2) Group Trailer and 3 Axle Dolly and 3 Axle (1 2) Group Trailer (PBS)
- 3 Axle Prime Mover and 3 Axle (1 2) Group Trailer and 2 Axle Dolly and 3 Axle (1 2) Group Trailer (PBS)



Type 1 Road Trains: 3 Axle Prime Mover and 2 Axle Trailer and 2 Axle Dolly and 2 Axle Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	72.00		74.00	74.00					68.06	74.5 ¹⁵⁷	77.40 158
NSW	72.00		74.00	74.00		√	√	-	68.15 159	74.5 ¹⁶⁰	
Vic	-	_	-	-	_	-	-	66.06	68.06	74.5	_
SA	72.00		74.00	74.00		√	✓	-	-	-	GML 75.60 CML 77.70

¹⁵⁷ PBS Road Train operate to HML between GrainCorp Fisherman Islands and Type 1 Road Train Network in Toowoomba.

 $^{^{\}rm 158}$ Steer allowance does not apply to QLD GHMS mass limits.

¹⁵⁹ With VA, can operate on PBS 2B network via National Class 2 Performance Based Standards (High Productivity) Authorisation Notice – see 3.11.1

¹⁶⁰ With VA, can operate on PBS 2B network via National Class 2 Performance Based Standards (High Productivity) Authorisation Notice – see 3.11.1

¹⁶¹ PBS Road train can operate to 66.06t with permit on B-double routes – HML weights are extremely limited and care must be taken.



3 Axle Prime Mover and 2 Axle Trailer and 2 Axle Dolly and 3 Axle Trailer (Road train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	75.50		77.50	79.50		√	√				81.16
NSW		_			_	·	·		_		
Vic	-		-	-							-
SA	75.50		77.50	79.50		√	√				GML 79.28 CML 81.38 HML 83.48

¹⁶² Steer allowance does not apply to QLD GHMS mass limits.



Type 1 Road Trains: 3 Axle Prime Mover and 3 Axle Trailer and 2 Axle Dolly and 2 Axle Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML ¹⁶³	PBS – CML ¹⁶⁴	PBS – HML	GHMS
Qld	75 50		77.50	70.50		,		76.00	78.00	-	81.16
NSW	75.50		77.50	79.50		√	√				
Vic	-	-	-	-	-	-	-				-
SA	75.50		77.50	79.50		√	√				GML 79.28 CML 81.38 HML 83.48

¹⁶³ NHVR Vehicle Approval and Access Permit is required to deliver to Gladstone, Mackay and Pinkenba ports

 $^{^{164}}$ Above permits and NVHAS mass is required

¹⁶⁵ Steer allowance does not apply to QLD GHMS mass limits.



Type 1 Road Trains:



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld										85.50 ¹⁶⁶	84.93
NSW	70.00		01.00	0F 00		,				85.50 ¹⁶⁸	83.00
Vic ¹⁶⁹	79.00	-	81.00	85.00	-	✓	✓	-	-	85.50 ¹⁷⁰	-
SA										-	GML 82.95 CML 85.05 HML 89.25

¹⁶⁶ Trucks are permitted to operate between Toowoomba and Port of Brisbane as PBS trucks - see 3.10 Queensland Performance Based Standards A-Doubles East of the Great Dividing Range

¹⁶⁷ Steer allowance does not apply to QLD GHMS mass limits.

¹⁶⁸ With VA, can operate on PBS 2B network via National Class 2 Performance Based Standards (High Productivity) Authorisation Notice – see 3.11.1

¹⁶⁹ Take care with these combinations operating under general access because NHVR access permit is required to operate on network in Northern Victoria only – refer <u>Victoria Road Trains (Non PBS)</u>.

¹⁷⁰ With VA, can operate on PBS 2B network via National Class 2 Performance Based Standards (High Productivity) Authorisation Notice – see 3.11.2



Type 1 Road Trains:

31



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	70.00		91.00	8F 00		,					84.93
NSW	79.00		81.00	85.00		√	√		_	-	83.00
Vic	-	-	-	-	-	-	-	_	72.70 172	76.70	-
SA	79.00		81.00	85.00		√	√		-	-	GML 82.95 CML 85.05 HML 89.25

3 Axle Prime Mover and 2 Axle Semitrailer and 3 Axle Dolly and 3 Axle Semitrailer.

 $^{^{\}rm 171}\,\text{Steer}$ allowance does not apply to QLD GHMS mass limits.

¹⁷² In Victoria, NHVR Access Permit required on pre-approved network, trucks can also operate on the PBS 2A network with CML at 72.7t and PBS 2A HML network at 76.7t.



3 Axle Rigid and 3 Axle Dolly and 3 Axle Trailer (PBS)¹⁷³



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld ¹⁷⁴											
NSW ¹⁷⁵								62.50	63.00	68.50	
Vic	-	_	_	-	-	-	-				-
SA									-		

¹⁷³ 3 axle trailer can be swapped with a 3 axle A trailer from a B double.

 $^{^{174}}$ Truck can operate on the B double network, or PBS HML on the PBS HML Network.

¹⁷⁵ Truck can operate on the PBS 2A network, or PBS HML on the PBS 2A HML Network.



Type 1 Road Trains:

6 Axle Semitrailer and 1 Axle Dolly and 1 Axle Trailer



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	60.50		62.00	63.50		√	√				65.04
NSW		_			_	·	•		-		
Vic	-		-	-		-	-				-
SA	60.50		62.00	63.50		√	✓				GML 63.53 CML 65.10 HML 66.68

¹⁷⁶ Steer allowance does not apply to QLD GHMS mass limits.



Type 1 Road Trains:



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	60.00		70.00	74.50		,					73.10
NSW	68.00		70.00	71.50		√	√				
Vic	-	-	-	-	-	-	-		-		-
SA	68.00		70.00	71.50		√	✓				GML 71.40 CML 73.50 HML 75.08

¹⁷⁷ Steer allowance does not apply to QLD GHMS mass limits.



Type 1 Road Trains:



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	71.50		73.50	77.00		√	√				76.86 178
NSW	, 1.30	_	75.56		_	v	V		_		
Vic	-		-	-		-	-				_
SA	71.50		73.50			√	√				GML 75.08 CML 77.18

¹⁷⁸ Steer allowance does not apply to QLD GHMS mass limits.



Type 1 Road Trains:



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld				00.50						85.50 179	88.70
NSW	02.50		04.50	90.50		,			_	85.00	86.63
Vic ¹⁸¹	82.50	-	84.50	90.50	-	√	√	-	72.70 183	91.00	-
SA				90.50							GML 86.63 CML 88.73 HML 95.03

¹⁷⁹ Trucks must have access permit to operate between Toowoomba and Port of Brisbane as PBS trucks - see 3.10 Queensland Performance Based Standards A-Doubles East of the Great Dividing Range

¹⁸⁰ Steer allowance does not apply to QLD GHMS mass limits.

¹⁸¹ Take care with these combinations because NHVR access permit is required to operate in Northern Victoria only – refer <u>Victoria Road Trains (Non PBS)</u>.

 $^{^{\}rm 182}$ Mass is possible with NHVR access permit in Northern Victoria

¹⁸³ In Victoria, NHVR Access Permit required on pre-approved network, trucks can also operate on the PBS 2A network with CML at 72.7t and PBS 2A HML network at 76.7t.

¹⁸⁴ Mass is capped at 85.5 tonnes on the PBS 2B network and 91.0 tonnes is permitted on the PBS 3A network.



Type 1 Road Trains: 3 Axle Rigid and 3 Axle Dolly and 3 Axle A Trailer and 3 Axle B Trailer (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld										91.00	
NSW										78.40 186	
Vic	-	-	-	-	-	-	-		-		-
SA									-	78.40 187	

¹⁸⁵ 91.0 tonnes on the PBS 3A network and 78.40 tonnes on the PBS 2B network, unless there is an access permit for the specific route

 $^{^{\}rm 186}$ Maximum permitted mass limit by permit is 78.40 tonnes on the PBS 2B network

¹⁸⁷ Maximum permitted mass limit by permit is 78.40 tonnes on the PBS 2B network



3 Axle Prime Mover and 3 Axle (1 2) Group Trailer and 3 Axle Dolly and 3 Axle (1 2) Group Trailer (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld			1		'			88.35	90.35	92.35190	
NSW	-							-	91.80	98.00192	
Vic				-							-
SA									-		

¹⁸⁸ Access possible on Type 1 Road Train Network with Access Permit.

 $^{^{\}rm 189}$ Access possible on Type 1 Road Train Network with Access Permit.

¹⁹⁰ Access possible on HML Type 1 Road Train Network with Access Permit.

 $^{^{\}rm 191}$ Access is possible on PBS 3A network with Access Permit

¹⁹² Access extremely restricted with turn-by-turn routes. Only example is GrainCorp Moree.



3 Axle Prime Mover and 3 Axle (1 2) Group Trailer and 2 Axle Dolly and 3 Axle (1 2) Group Trailer (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld								84.00	92.50	-	
NSW								84.00	92.50	-	
Vic	-	-	-	-	-	-	-				-
SA									-		

¹⁹³ PBS Level 3 Network

¹⁹⁴ By route only – care must be taken

¹⁹⁵ Type 1 A-Double HML Network

¹⁹⁶ By route only – care must be taken



Tri Drive Prime Mover 13 Axle Road Train



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld								84.00	92.50	-	
NSW								84.00	92.50	-	
Vic	- -	-	-	-	-	-	-				-
SA									-		

¹⁹⁷ PBS Level 3 Network

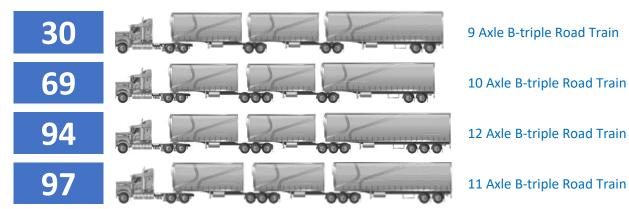
¹⁹⁸ By route only – care must be taken

¹⁹⁹ Type 1 A-Double HML Network

²⁰⁰ By route only – care must be taken



4.8 B-triples





9 Axle B-triple Road Train



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	72.00		74.00			,					77.40
NSW	72.00		74.00			√	✓				-
Vic	-	-	-	_	-	-	-		-		-
SA	72.00		74.00			√	✓				GML 75.60 CML 77.70

²⁰¹ Steer allowance does not apply to QLD GHMS mass limits.



10 Axle B-triple Road Train



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	75.50		77.50	79.50		√	√				81.16
NSW		_			_	v	•		_		
Vic	-		-	-		-	-				-
SA ²⁰³	75.50		77.50	79.50		√	✓				GML 79.28 CML 81.38 HML 83.48

 $^{^{\}rm 202}\,\text{Steer}$ allowance does not apply to QLD GHMS mass limits.

²⁰³ South Australia requires PBS 3A Network permit if operating at HML.



12 Axle B-triple Road Train



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											88.70
NSW	92.50		04.50	00.50		,			-		86.63
Vic	82.50	-	84.50	90.50	-	√	√	91.00	85.00	91.00	-
SA ²⁰⁵									-	,	GML 86.63 CML 88.73 HML 95.03

²⁰⁴ Steer allowance does not apply to QLD GHMS mass limits.

²⁰⁵ South Australia requires PBS 3A Network permit if operating at HML.



11 Axle B-triple Road Train



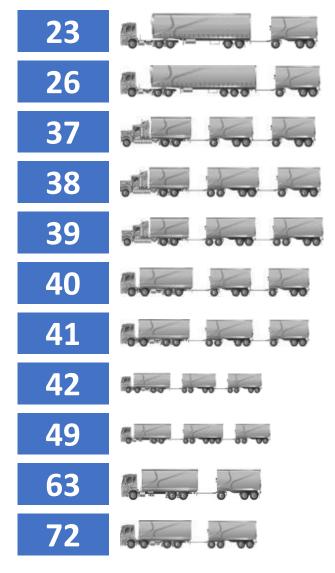
State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	79.00		81.00	85.00		√	√				84.93
NSW		_			_	•	·		-		-
Vic	-		-	-							-
SA ²⁰⁷	79.00		81.00	85.00		√	✓				GML 82.95 CML 85.05 HML 89.25

²⁰⁶ Steer allowance does not apply to QLD GHMS mass limits.

²⁰⁷ South Australia requires PBS 3A Network permit if operating at HML.

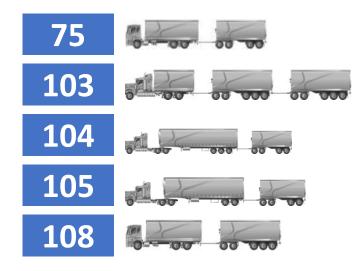


4.9 Type 1 Road Trains with Dog Trailers



- 5 Axle Semitrailer and 3 Axle Dog Trailer (Road Train)
- 6 Axle Semitrailer and 3 Axle Dog Trailer (Road Train)
- 3 Axle Rigid Truck and 2 x 3 Axle Dog Trailers (Road Train)
- 3 Axle Rigid Truck and 4 Axle Dog Trailer and 3 Axle Dog Trailer (Road Train)
- 3 Axle Rigid Truck and 2 x 4 Axle Dog Trailers (Road Train)
- 4 Axle Twin Steer Rigid Truck and 2 x 3 Axle Dog Trailers (Road Train)
- 4 Axle Twin Steer Rigid Truck and 4 Axle Dog Trailer and 3 Axle Dog Trailer (Road Train)
- 4 Axle Twin Steer Rigid Truck2 x 4 Axle Dog Trailers (Road Train)
- 3 Axle Rigid Truck and 5 Axle Dog Trailer and 4 Axle Dog Trailer (PBS)
- 3 Axle Rigid Truck and 3 Axle Dog Trailer (Road Train)
- 4 Axle Twin Steer Rigid Truck and 4 Axle Dog Trailer (Road Train)





- 3 Axle Rigid Truck and 4 Axle Dog Trailer (Road Train)
- 3 Axle Rigid and 5 Axle Dog and 5 Axle Dog
- 3 Axle Prime Mover and 3 Axle Trailer and 4 Axle Dog Trailer (Road Train)
- 3 Axle Prime Mover and 2 Axle Trailer and 4 Axle Dog (Road Train)
- 3 Axle Rigid and 5 Axle Dog Trailer (Road Train)



Road Trains with Dog Trailers:

5 Axle Semitrailer and 3 Axle Dog (Road Train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	64.50		66.00			√					69.34
NSW		_		_	_	·	_		_		
Vic			-								-
SA	_					-					

²⁰⁸ Steer allowance does not apply to QLD GHMS mass limits.



Road Trains with Dog Trailers:

6 Axle Semitrailer and 3 Axle Dog Trailer (Road Train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	69.00		70.00								73.10
NSW	68.00				-	,					
Vic		-	-	-		✓	-		-		-
SA ²¹⁰	_				63.50						

²⁰⁹ Steer allowance does not apply to QLD GHMS mass limits.

²¹⁰ South Australia requires permit to operate.



3 Axle Rigid Truck and 2 x 3 Axle Dog Trailers²¹¹



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	-					-					
NSW	73.50					√					
Vic		-	-	-	-		-		-		-
SA	-					-					

²¹¹ Rigid trucks with 2 dog trailers can only operate in NSW



3 Axle Rigid Truck and 4 Axle Dog Trailer and 3 Axle Dog Trailer (Road Train)

38



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	-		-			-					
NSW	79.00		81.00			√					
Vic		-		-	-		-		-		-
SA	-		-			-					

Rigid trucks with 2 dog trailers can only operate in NSW.



3 Axle Rigid Truck and 2 x 4 Axle Dog Trailers (Road Train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML ²¹²	PBS – HML	GHMS
Qld ²¹³	88.50		91.00	-		,		-	92.10	-	95.14 ²¹⁴
NSW ²¹⁵	79.00					√	√	-	90.50 ²¹⁶		83.00
Vic		-	-	-	-						
SA	-					-	-				-

²¹² On PBS 3A network with permit

²¹³ Qld general access operation is permitted on the 53.5 metre Type 2 Road Train Network only

²¹⁴ Steer allowance does not apply to QLD GHMS mass limits.

²¹⁵ NSW operation is permitted on the Type 1 36.5 metre Road Train. Note that the Network National Heavy Vehicle Regulator Heavy Freight Vehicle Configurations chart shows up to 91.00 tonnes for this configuration and this is on the Type 2 Road Train Network only

²¹⁶ Access is permitted at PBS weights for trucks with a PBS Vehicle Approval and a NHVR access permit



4 Axle Twin Steer Rigid Truck and 2 x 3 Axle Dog Trailers (Road Train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	-		-								
NSW ²¹⁷	72.50		74.50								
Vic		-		-	-	-	-		-		-
SA	-		-								

²¹⁷ Access on the Type 1 Road Train network



Road Trains with Dog Trailers: 4 Axle Twin Steer Rigid Truck and 4 Axle Dog Trailer and 3 Axle Dog Trailer (Road Train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	-		-								
NSW ²¹⁸	78.00		80.00								
Vic		_		-	-	-	-		-		-
SA	-		-								

²¹⁸ Access on the NSW Type 1 Road Train network



Road Trains with Dog Trailers: 4 Axle Twin Steer Rigid Truck 2 x 4 Axle Dog Trailers (Road Train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	-		-								
NSW ²¹⁹	78.00		80.00								
Vic		-		-	-	-	-		-		-
SA	-		-								

²¹⁹ Access on the NSW Type 1 Road Train network



Road Trains with Dog Trailers: 3 Axle Rigid Truck and 5 Axle Dog Trailer and 4 Axle Dog Trailer (PBS)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML ²²⁰	PBS – CML	PBS – HML	GHMS
Qld								-			-
NSW								88.00			83.00
Vic	-	-	-	-	-	-	_		-	-	
SA								-			-

²²⁰ Access for combination is very limited at PBS GML



3 Axle Rigid Truck and 3 Axle Dog Trailer (Road Train over 19m up to 31.5m)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld ²²¹	55.50			57.00		√					59.66
NSW		_	_		_		_	_	_	_	
Vic				-		-					-
SA											

Total combination length must exceed 19 metres and comply with *Queensland Class 3 Heavy Vehicle Truck Towing One Trailer Exceeding 19m Up To 31.5m Mass and Dimension Exemption Notice 2022? (No.1)* on Type 1 Road Train Routes only using either a 3 axle dog trailer or a 1 axle dolly and 2 axle trailer.

²²² Steer allowance does not apply to QLD GHMS mass limits.



4 Axle Twin Steer Rigid Truck and 4 Axle Dog Trailer (Road Train)²²³



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld ²²⁴	60.50		62.50								65.00
NSW											
Vic		-	-	-	-	-	-	-	-	-	-
SA											

²²³ Over 19m up to 31.5m

Total combination length must exceed 19 metres and comply with *Queensland Class 3 Heavy Vehicle Truck Towing One Trailer Exceeding 19m Up To 31.5m Mass and Dimension Exemption Notice 2022? (No.1)* on Type 1 Road Train Routes only using either a 4 axle dog trailer or a 2 axle dolly and 2 axle trailer.



3 Axle Rigid Truck and 4 Axle Dog Trailer (Road Train over 19m up to 31.5m)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld ²²⁵	55.50		57.50			√					59.66 226
NSW		_		_	_		_	_	_	_	
Vic			-			-					-
SA											

Total combination length must exceed 19 metres and comply with *Queensland Class 3 Heavy Vehicle Truck Towing One Trailer Exceeding 19m Up To 31.5m Mass and Dimension Exemption Notice 2022 (No.1)* on Type 1 Road Train Routes only using either a 4 axle dog trailer or a 2 axle dolly and 2 axle trailer.

²²⁶ Steer allowance does not apply to QLD GHMS mass limits.



3 Axle Rigid and 5 Axle Dog and 5 Axle Dog



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld											
NSW	-			-		-					
Vic ²²⁷	05.00	-	-	102.00	-	,	-	-	-	-	-
SA	95.00			102.00		✓					

²²⁷ NHVR access permit required



Road Trains with Dog Trailers: 3 Axle Prime Mover and 3 Axle Trailer and 4 Axle Dog (Road Train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	-										
NSW	75.50 228					-					
Vic	-	-	-	-	-		-	-	-	-	-
SA	63.50					√					

²²⁸ Maximum mass (GML) subject to axle spacing requirements



Road Trains with Dog Trailers: 3 Axle Prime Mover and 2 Axle Trailer and 4 Axle Dog (Road Train)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	-										
NSW	72.00					-					
Vic	-	-	-	-	-		-	-	-	-	-
SA	63.50					√					

²²⁹ Maximum mass (GML) subject to axle spacing requirements



3 Axle Rigid and 5 Axle Dog Trailer (Road Train)²³⁰



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld ²³¹	59.00					✓					63.42
NSW		_	_	_	_		_	_	_	_	-
Vic	_					-					
SA											

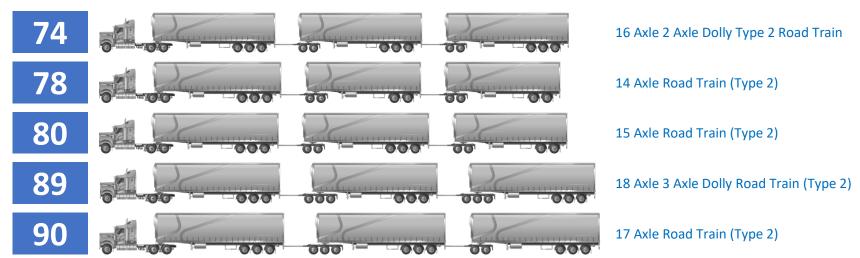
²³⁰ Over 19m up to 31.5m

²³¹ Total combination length must exceed 19 metres and comply with *Queensland Class 3 Heavy Vehicle Truck Towing One Trailer Exceeding 19m Up To 31.5m Mass and Dimension Exemption Notice 2022? (No.1)* on Type 1 Road Train Routes only using either a 4 axle dog trailer or a 2 axle dolly and 2 axle trailer.

²³² Steer allowance does not apply to QLD GHMS mass limits.



4.10 Type 2 Road Trains





Type 2 Road Trains

16 Axle 2 Axle Dolly Type 2 Road Train



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	115.50		118.50	124.50		✓	✓				124.16
NSW		_			_				_		
Vic	_		-	-		-	-				-
SA ²³⁴	115.50		118.50	124.50		√	√				GML 121.28 CML 124.43 HML 130.73

²³³ Steer allowance does not apply to QLD GHMS mass limits.

²³⁴ South Australia requires a NHVR permit unless operating on the pre-approved 53.5m network.



Type 2 Road Trains

14 Axle Road Train (Type 2)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	108.50		111.50	113.50		✓	✓				116.63 235
NSW		_			_				_		
Vic	-		_	_		-	_				-
SA ²³⁶	108.50		111.50	113.50		√	√				GML 113.93 CML 121.28 HML 119.18

²³⁵ Steer allowance does not apply to QLD GHMS mass limits.

²³⁶ South Australia requires a NHVR permit unless operating on the pre-approved 53.5m network.



Type 2 Road Trains

15 Axle Road Train (Type 2)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	112.00		115.00	119.00		✓	✓				120.40
NSW											
Vic	-	-	-	-	-	-	-		-		-
SA ²³⁸	112.00		115.00	119.00		√	√				GML 117.60 CML 120.75 HML 124.95

²³⁷ Steer allowance does not apply to QLD GHMS mass limits.

²³⁸ South Australia requires a NHVR permit unless operating on the pre-approved 53.5m network.



Type 2 Road Trains

18 Axle 3 Axle Dolly Road Train (Type 2)



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	122.50		126.50	135.50		✓	✓				131.70
NSW											
Vic	-	-	-	-	-	-	-		-		-
SA ²⁴⁰	122.50		126.50	135.50		√	√				GML 118.13 CML 132.83 HML 142.28

²³⁹ Steer allowance does not apply to QLD GHMS mass limits.

²⁴⁰ South Australia requires a NHVR permit unless operating on the pre-approved 53.5m network.



Type 2 Road Trains

17 Axle Road Train (Type 2)



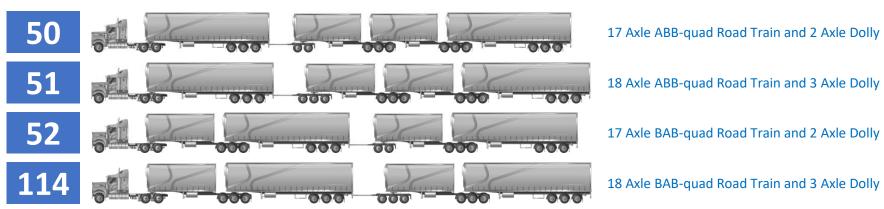
State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	119.00		122.00	130.00		\checkmark	✓				127.90
NSW											
Vic	-	-	-	-	-	-	-		-		-
SA ²⁴²	119.00		122.00	130.00		√	√				GML 124.95 CML 128.10 HML 136.50

²⁴¹ Steer allowance does not apply to QLD GHMS mass limits.

²⁴² South Australia requires a NHVR permit unless operating on the pre-approved 53.5m network.



4.11 Type 2 Quads





Type 2 Quads

17 Axle ABB-quad Road Train and 2 Axle Dolly



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	119.00		122.00	130.00		√	✓				127.90
NSW											
Vic	_	-	-	-	-	-	-		-		-
SA											

²⁴³ Steer allowance does not apply to QLD GHMS mass limits.



Type 2 Quads

18 Axle ABB-quad Road Train and 3 Axle Dolly



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	122.50		126.50	135.50		\checkmark	✓				131.70
NSW											
Vic	-	-	-	-	-	-	-		-		-
SA											

²⁴⁴ Steer allowance does not apply to QLD GHMS mass limits.



Type 2 Quads

17 Axle BAB-quad Road Train and 2 Axle Dolly



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	119.00		122.00	130.00		✓	✓				127.90
NSW											
Vic	-	-	-	-	-	-	-		-		-
SA											

²⁴⁵ Steer allowance does not apply to QLD GHMS mass limits.



Type 2 Quads

18 Axle BAB-quad Road Train and 3 Axle Dolly



State	GML	RFS	CML	HML	Notice	0.5t Steer	1.1t Steer	PBS – GML	PBS – CML	PBS – HML	GHMS
Qld	122.50		126.50	135.50		√	✓				131.70
NSW		_			_				-		
Vic						-	-				
SA											

²⁴⁶ Steer allowance does not apply to QLD GHMS mass limits.



5 Key Terms & Definitions

J Rey Tellis o	C Definitions
A-double	A prime mover towing a Semitrailer towing another Semitrailer connected by a converter dolly.
A-trailer	The forward Semitrailer in a heavy vehicle combination coupled by a turntable (fifth wheel) to a prime mover.
A-triple	A prime mover towing three Semitrailers. The second and third Semitrailers are each connected by a converter dolly.
AB-triple	A prime mover towing three Semitrailers. The second Semitrailer is connected by a converter dolly and the third trailer is connected by a fifth wheel located towards the rear of the preceding Semitrailer. Can also be described as a Semitrailer towing a B-double using a converter dolly.
	Typical AB-triple
AAB-quad	A prime mover towing four Semitrailers. The second and third Semitrailers are connected by a converter dolly and the fourth Semitrailer is connected by a fifth wheel located towards the rear of the preceding Semitrailer. Can also be described as an A-double towing a B-double using a converter dolly.
ABB-quad	A prime mover towing four Semitrailers. The third and fourth Semitrailers are connected by a fifth wheel located towards the rear of the preceding Semitrailer and the second Semitrailer is connected by a converter dolly. Can also be described as a Semitrailer towing a B-triple using a converter dolly.
Articulated	Means having two or more rigid sections connected to one another that allows rotary movement between the sections.
Active Vehicle Module (AVM)	The AVM search on the NHVR website allows you to check in real time if a vehicle is currently nominated in the NHVAS Mass and/or Maintenance modules.
Axle	1 or more shafts positioned in a line across a vehicle, on which 1 or more wheels intended to support the vehicle turn.
Axle group	A combination of truck axles in a truck combination for a prime mover, dolly, or trailer. Typical examples are a tandem axle group, twin steer axle group, tri-axle group or quad-axle group.
B-double	A combination consisting of a prime mover towing 2 Semitrailers, with the first Semitrailer being attached directly to the prime mover by a fifth wheel coupling and the second Semitrailer being mounted on the rear of the first Semitrailer by a fifth wheel coupling on the first Semitrailer. Typical B-double



B-trailer	A Semitrailer/s coupled via a turntable (fifth wheel) mounted on the forward semitrailer.
B-triple	A combination consisting of a prime mover towing 3 Semitrailers, all attached by a fifth wheel coupling. Typical B-triple
BA-triple	A prime mover towing three Semitrailers. The second Semitrailer is connected by a fifth wheel located towards the rear of the preceding Semitrailer and the third Semitrailer is connected by a converter dolly. Can also be described as a B-double towing a Semitrailer using a converter dolly.
BAA-quad	A prime mover towing four Semitrailers. The second Semitrailer is connected by a fifth wheel located towards the rear of the preceding Semitrailer and the third and fourth Semitrailers are connected by a converter dolly. Can also be described as a B-double towing an A-double using a converter dolly.
BAB-quad	A prime mover towing four Semitrailers. The second and fourth Semitrailers are connected by a fifth wheel located towards the rear of the preceding Semitrailer and the third Semitrailer is connected by a converter dolly. Can also be described as a B-double towing a B-double using a converter dolly.
Bulk Handler	Company that loads or unloads grain trucks during or outside of harvest and is a loader, unloader, consigner or consignee under the definitions used by the HVNL. Refer 1.5 for examples about CoR parties.
Chain of Responsibility (CoR)	Chain of Responsibility is similar to the legal concept of 'duty of care' that underpins Occupational Health and Safety (OHS) law. This approach has long been used by the courts to impose liability in negligence and damages claims. Under CoR, complying with transport law is a shared responsibility and all parties in the road transport supply chain are responsible for preventing breaches. This approach recognises the effects of the actions, inactions and demands of off-the-road parties in the transport chain. Anybody – not just the driver – who has control over the transport task can be held responsible for breaches of road laws and may be legally liable.
Combination	A group of vehicles consisting of a motor vehicle such as a prime mover or rigid truck towing one or more other vehicle units such as a Semitrailer or trailer.
Commonwealth Gazette Notice	A notice published in the Commonwealth Gazette. In the context of this glossary and other documents which reference it, a notice is a Commonwealth Gazette notice unless otherwise stated e.g. notices gazetted by non-Commonwealth jurisdictions.



Concessional Mass	Concessional mass limits are given to truck operators when they are
Limit (CML)	audited using the NHVAS Mass process to ensure they have systems and
- (-)	processes to manage axle group and gross combination mass limits to
	allow them to have heavier overall mass. Trucks must display a sticker on
	the truck to operate to the heavier weight.
Converter dolly	A pig trailer with a fifth wheel coupling designed to convert a Semitrailer
converter dony	into a dog trailer.
	into a dog traner.
	Typical converter dolly
Coupling	A device used to attach a vehicle in a combination to the vehicle in front of
coapinig	it.
Dimension	Approved width, or height or length.
requirement	Approved width, or neight or length.
Dog trailer	A trailer (including a trailer consisting of a Semitrailer and converter dolly)
Dog trailer	that has—
	 one axle group or a single axle at the front that is being steered by
	connection to a towing vehicle by a drawbar; and
E	one axle group or a single axle at the rear.
Exemption	A legal instrument used to provide alternative or non-compliance with a
	law, regulation or standard. For example, a vehicle standards exemption, a
	fatigue-related exemption (e.g. a work/rest hours exemption), or an
	access-related exemption. An exemption can be provided by notice or
=:6:1 1 1:	permit.
Fifth wheel coupling	A device (other than an upper rotating element and a kingpin) used with a
	prime mover, Semitrailer or converter dolly to-
	permit quick coupling and uncoupling; and
	provide for articulation.
Front under-run	A device or barrier installed at the front of a heavy vehicle with the
protection (FUP)	purpose of preventing other vehicles from being pushed underneath the
	front of the heavy vehicle in the event of a collision.
Gazette notice	A legal instrument that provides the Regulator with the ability to issue
	information, authorisations or exemptions, that apply to a certain class(es)
	of heavy vehicle or persons and will generally include conditions.
Grain Harvest	State-based mass management schemes to overcome some of the
Management	practical difficulties in grain transport. In particular, these relate to the
Scheme (GHMS)	efforts of operators to maximise payload while not breaching legislated
	heavy vehicle mass limits due to the varying moisture contents and density
	variances of grain.
General Mass Limit	General Mass Limits (GML) apply to all heavy vehicles. The GML state the
(GML)	allowable mass for all types of heavy vehicle axle groups, unless the vehicle
	is running under an accreditation scheme, or an exemption under the
	Heavy Vehicle National Law.
Grain Transport	See www.gtsn.com.au
Safety Network	
Saicty Network	



Gross Combination Mass (GCM)	Means the total maximum loaded mass of a vehicle and any vehicles it may lawfully tow at any given time— • If the Regulator has, under section 56, specified the total maximum loaded mass of the motor vehicle and any vehicles it may lawfully tow at any given time – specified by the Regulator under that section; or • Otherwise – stated by the motor vehicle's manufacturer.
Gross Vehicle Mass (GVM)	Of a vehicle, means the maximum loaded mass of the vehicle— • If the Regulator has specified the vehicle's maximum loaded mass under section 57—specified by the Regulator under that section; or • Otherwise—stated by the vehicle's manufacturer.
Grain Trade Australia (GTA)	See www.graintrade.org.au
Harvest Management Scheme (HMS)	See Grain Harvest Management Scheme.
Heavy Vehicle	For the purposes of the HVNL a vehicle is a heavy vehicle if it has a GVM or ATM of more than 4.5 tonnes Also, for the purposes of this Law other than in relation to registration under this Law, a combination that includes a vehicle with a GVM or ATM of more than 4.5 tonnes is a heavy vehicle. Rolling stock is not a heavy vehicle under this Law.
High Productivity Freight Vehicles (HPFVs)	HPFVs are large combination vehicles that offer significant benefits for lowering costs, improving safety and protecting the environment by reducing the number of truck movements that would otherwise be needed. For example, a heavy vehicle combination that exceeds 26 metres and/or has a Gross Combination Mass (GCM) of more than 68.5 tonnes.
Higher Mass Limit (HML)	A mass exception under the HVNL which allows higher mass limits on approved routes for particular vehicles or vehicle combinations dependent on other conditions being met (e.g. IAP and/or road friendly suspension may need to be fitted to the vehicle).
Heavy Vehicle National Law (HVNL)	An Australian law with the purpose of regulating the heavy vehicle industry including registration, driver fatigue, vehicle standards, mass dimension and loading, compliance and enforcement and access.
Intelligent Access Program (IAP)	IAP is a program to allow heavy vehicles to have access, or improved access, to the road network in return for monitoring, by an intelligent transport system, of their compliance with stated access conditions.
Mass limits	The maximum allowable mass of an axle or axle group, vehicle or vehicle combination. mass limit regimes include general mass limits, concessional mass limits and higher mass limits.
Mass requirement	Approved mass limit or mass exception.



National Heavy Vehicle	NHVAS is voluntary and open to operators who can demonstrate a record of compliance with heavy vehicle regulation and standards. Operators can
Accreditation	apply for accreditation under the following NHVAS modules:
Scheme (NHVAS)	Mass Management Maintenance Management
	Maintenance Management Pasis Fatigue Management (RFM)
	Basic Fatigue Management (BFM)Advanced Fatigue Management (AFM)
	To be eligible for accreditation under NHVAS, operators must agree to
	abide by the NHVAS standards and business rules and provide
	documentary and audit evidence that they comply with the relevant
	NHVAS standards. The maximum period for which the Regulator may grant
	heavy vehicle accreditation is 3 years.
National Heavy	The independent body established under the Heavy Vehicle National Law
Vehicle Regulator (NHVR)	(HVNL) to administer that law.
Performance Based	An alternative compliance scheme for heavy vehicles setting minimum
Standards (PBS)	performance levels for safe and efficient operation (as opposed to
	standard prescriptive rules). Greater access is generally afforded for higher performance.
Notice	A legal instrument used to provide alternative or non-compliance with a
	law, regulation or standard.
Pig trailer	A trailer with 1 axle group or a single axle near the middle of its load
	carrying surface; and connected to the towing vehicle by a drawbar.
	Example pig trailer
Prime mover	A heavy motor vehicle designed to tow a Semitrailer
	Ren To
	Typical prime mover
	Typical prime movel
Quad-axle group	A group of 4 axles, in which the horizontal distance between the centre-
	lines of the outermost axles is more than 3.2m but not more than 4.9m.
	3.2m < d < 4.9m
	Typical quad-axle group
Road Friendly	A suspension system certified as a road friendly suspension system by the
Suspension (RFS)	Vehicle Safety Standards Branch of the Commonwealth Department
	Infrastructure and Regional Development in accordance with VSB11.
Rigid	Not articulated.
	~ ~ ~



	Typical rigid (truck only)									
Road train	A B-triple, or a combination, other than a B-double, consisting of a motor vehicle towing at least 2 trailers, excluding any converter dolly supporting a Semitrailer.									
	Typical road train									
Route	A set of connection roads and infrastructure allowing a vehicle to travel from one location to another.									
Semitrailer	A trailer that has 1 axle group or a single axle towards the rear, and a means of attachment to a prime mover that results in some of the mass of the trailer's load being imposed on the prime mover.									
	Typical semitrailer									
Single axle	1 axle or 2 axles with centres between transverse, parallel, vertical planes spaced less than 1.0m apart.									
	Typical single axle group									
Site	An owned or leased property where a business has overall management control or influence, for example, bulk handler country site, domestic end user, farm storage, feedlot, port terminal.									
Tandem axle group	A group of at least 2 axles, in which the horizontal distance between the centre-lines of the outermost axles is at least 1m but not more than 2m.									
	1m < d < 2m									
	Typical tandem axle group									
Tri-axle group	A group of at least 3 axles, in which the horizontal distance between the centre-lines of the outermost axles is more than 2m but not more than 3.2m.									
	000									
	2m < d < 3.2m									
	Typical tri-axle group									



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7 Acknowledgements

The GTSN would like to acknowledge the member companies for their contributions to the development of this Truck Book.















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