

Train Operating Data

NA_NSP_02.26 - R02-2024

PAKENHAM TO BAIRNSDALE

BROAD GAUGE

1. CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS (KM/H)

		CLASS OF LOCOMOTIVE					
		G, XR, BL	A, B, GM, N, S, X	Т	H, P	Υ	Sprinter/ Vlocity
PAKENHAM KP 64.600 down side of MT ARARAT	Freight	80	80	80	80	65	
ROAD and NAR NAR GOON - South Line	Pass	80	115	100	100		130
PAKENHAM KP 64.600 down side of MT ARARAT	Freight	80	80	80	80	65	
ROAD and NAR NAR GOON - North Line	Pass	80	115	100	100		115
NAR NAR GOON to WARRAGUL	Freight	80	80	80	80	65	
 North, South and Single Lines 	Pass	80	115	100	100		130
WARRAGUL and 130.960 km Post	Freight	80	80	80	80	65	
(Down side of MOE)	Pass	80	115	100	100		130
Except over LITTLE MOE RIVER BRIDGE at	Up Freight	25	80	80	80	65	
105.00 km between WARRAGUL and YARRAGON South Track Only	Up Pass	25	115	100	100		130
130.960 km Post (Down side of MOE) and	Freight	80	80	80	80	65	
HERNE'S OAK	Pass	80	100	100	100		115
HERNE'S OAK and TRARALGON	Freight	80	80	80	80	65	
	Pass	80	115	100	100		130
θ Except through the Loop Tracks at MORWELL	All Trains	40	40	40	40	40	40
Except through TRARALGON all trains travelling on the normal diverging movement via the Platform Road.	All Trains	40	40	40	40	40	40
TRARALGON and SALE	Freight	#	80	80	80	65	
	Pass		100	100	100		100
SALE and PRINCES HIGHWAY BAIRNSDALE – KP 270.944	Pass		100	100	100		 100
PRINCES HIGHWAY BAIRNSDALE – KP 270.944 to BAIRNSDALE STATION	Pass		80	80	80		 80
Except for all trains travelling across the AVON RIVER STRATFORD between KP 221.392 and KP 222.276	Pass		90	90	90	65	90

Note # G Class Locomotives are NOT permitted to operate beyond Traralgon.

θ Refer Section 2 , Special Speed Restrictions, points 3 and 4 regarding authorised speeds for consists with permissible overloads.



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1A. VLOCITY RAIL CARS - AUTHORISED 160KM/H PERMITTED SPEEDS

REGIONAL FAST RAIL CORRIDOR - PAKENHAM TO TRARALGON

VLOCITY
150
160
As per table 1 above for Sprinter
160
As per table 1 above for Sprinter
160
As per table 1 above for Sprinter
160
As per table 1 above for Sprinter
160
As per table 1 above for Sprinter
160
As per table 1 above for Sprinter

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2. SPECIAL SPEED RESTRICTIONS

- Speed Restrictions indicated in the above tables for G class locomotives over certain bridges/subways apply only
 until after the locomotive clears the bridge/subway concerned.
- 2. The speed of G class locomotives when passing over Main Line Points on the Straight track must not exceed 65km/h at MOE, HERNE'S OAK, MORWELL and MARYVALE.
- 3. Trains running on the South line and Single line sections from Maryvale Exchange Siding via Pakenham using approved wagons, shall not exceed 88 tonnes gross or an axle load of 22 tonnes and are restricted to a maximum of 80km/h or 30km/h when running through the Loop track at Herne's Oak Loop and Morwell Loop.
- 4. Trains running over the North Line only from Maryvale Exchange Siding via Pakenham using approved wagons, shall not exceed 84 tonnes gross or an axle load of 21 tonnes and are restricted to a maximum speed of 60km/h or 30km/h when running through the Loop track at Herne's Oak Loop and Morwell Loop.
- 5. The speed of all trains when passing over Facing Points worked by mechanical or electrical interlocking, or otherwise securely fastened, or over Trailing Points shall be as shown hereunder:

LOCATION	EED KM/H	
	When running to or from lines diverging from the straight track	When running on the straight track
Over facing points held by hand	15	15
Between PAKENHAM and BAIRNSDALE	40 (or higher as specified by speed indicator on signal mast)	Line Speed for Train Type
At TRARALGON (speed on the straight refers to the normal diverging movement via No 1 Road)	15	40

- 6. All self propelled Rolling Stock (Locomotives etc.) including Track Machines and Track Maintenance vehicles which are not fitted with TPWS must be restricted to a Maximum Speed of 80 (eighty) KPH between Pakenham to Traralgon.
- Traralgon A Notice Board is provided at 159.149km near to the existing limit of Shunt sign applicable to Down Train movements with the wording as shown requiring Down Trains not to exceed 70KPH to the Liddiard Road Level Crossing.
- Rosedale A Notice Board is provided at Rosedale approximately 430 metres on the Up side of the Rosedale Station Platform to show the maximum speed for Down Trains approaching the Willung Road Level Crossing.
- Sale Bairnsdale Special sign posted Temporary Speed Restrictions apply to Vlocity Rail Cars only between Sale and Bairnsdale. A "VL" prefix applies to the normal sign posted Temporary Speed Restriction indicating these only apply for Vlocity Rail Cars.
- Sale A Notice Board is provided opposite Signal H to show the maximum speed for Down Trains approaching the Maffra Road Level Crossing. The indicated speed will only apply to that Level Crossing.

MAX SPEED TO LIDDIARD ROAD 70 KM/H

MAX SPEED TO WILLUNG ROAD 80 KM/H

> MAX SPEED TO MAFFRA ROAD 90 KM/H



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- 11. Stratford A Notice Board is provided approximately 350 metres on the Down side of the McAlister Street Level Crossing to show the maximum speed for Up Trains approaching the McAlister Street Level Crossing. The indicated speed will only apply up to that Level Crossing.
- 12. Stratford A Notice Board is provided approximately 20 metres on the Up side of the McAlister Street Level Crossing to show the maximum speed for Down Trains approaching the Hobson Street Level Crossing. The indicated speed will only apply up to that Level Crossing.
- 13. Stratford A Notice Board is provided on approximately 310 metres on the Up side of the Princes Highway Level Crossing to show the maximum speed for Down Trains approaching the Princes Highway Level Crossing. The indicated speed will only apply up to that Level Crossing.
- 14. Bairnsdale A Notice Board is provided at the UP end of No. 2 Road advising that UP Trains Maximum Speed to the Ligar Street PCR (274.172km) is not to exceed 15 km/h.
- 15. **Bairnsdale** A Notice Board is provided on the UP approach to **Princes Highway PCR (270.944km)** to show the maximum speed approaching the Level Crossing and will apply to trains passing the Notice Board at less than 50km/h.
- 16. Bairnsdale Notice Boards are provided on both the UP and the DOWN approach to Bosworth Road PCR (272.484km) to show the maximum speed approaching the Level Crossing and will apply to trains passing the Notice Board at less then 50km/h.
- Bairnsdale A Notice Board is provided on the UP approach to Ligar Street PCR (274.172km) to show the maximum speed approaching the Level Crossing.

MAX SPEED TO MCALISTER STREET 40KM/H

MAX SPEED TO HOBSON STREET 40KM/H

MAX SPEED TO PRINCES HIGHWAY 40 KM/H

TRAINS MAXIMUM SPEED TO CROSSING 15 KM/H

TRAINS LESS THAN 50 KM/H MAX SPEED TO PRINCES HIGHWAY 50 KM/H

TRAINS LESS THAN 50 KM/H MAX SPEED TO BOSWORTH ROAD 50 KM/H

MAX SPEED TO LIGAR STREET 60 KM/H **PAKENHAM**

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BROAD GAUGE		•	D.	II INO 4			· (TON	INIEO)					
		3	. KU	JLING (SKADE	LOADS	S (TON	INES)					
SECTION	1				C	CLASSES	OF LOC	OMOTIV	ES				
	G, XR, BL	N	GM, S, X	Mod A	Non Mod A solo or multi with A	Non Mod A multi with other class	В	H solo or multi with H, P, T or Y	H multi with other class	T or P solo or multi with H, P, T or Y	T or P multi with other class	Y solo or multi with T, Y, H or P	Y multi with other class
DOWN													
PAKENHAM	1850			1440									
WARRAGUL	1450	1100	930	1100	910	820	760	560	500	560	500	405	360
MOE	1510	1200	1000	1170	1100	990	780	600	600	600	540	400	360
MORWELL	• 1370	1030	930	♦ 1110	860	770	760	540	490	540	490	355	320
TRARALGON	1980	1410	1260	1500	1250	1130	1150	870	780	870	780	580	520
SALE		1820	1220		1390	1250	970	860	770	860	860	460	460
BAIRNSDALE		1320	990	1100	1090	980	800	610	610	550	550	405	405
UP													
Bairnsdale to													
SALE		1460	1120	1450		1070	900	680	610	570	570	405	405
TRARALGON		1950	1500	1790	1730	1560	1180	860	770	790	710C	460	460
MORWELL	1425	1060	910	1100	930	850	760	600	550	600	550	390	350
MOE	1370	960	800	1000	850	770	700	500	450	500	450	355	320
MOE	1425	1060	910	1100	930	850	760	600	550	600	550	390	350
(Non-Stop Herne's Oak)													
WARRAGUL	3280	2300	1910	2300	1920	1730	1540	1200	1080	1200	1080	815	730
DROUIN		0000	4005		1000	4740	4500	4465	40==	4465	40==	700	000
(Via South Line)		2260	1900	4405	1900	1710	1530	1190	1070	1190	1070	730	660
(Via North Line)	1450	1100	900	1100	910	820	760	560	500	560	500	405	360

Trains operating non-stop through MORWELL and hauled by a G class locomotive may be built up to 1450 tonnes.

4. SAFEWORKING SYSTEMS

Automatic and Track Control is in force on the NORTH SOUTH and SINGLE Lines between PAKENHAM and TRARALGON in accordance with the provisions of Sections 16 and 36 of the Rules and Operating Procedures.

Automatic Block Signalling is in force at TRARALGON.

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The signalling at PAKENHAM is controlled by Metro Trains.

The signalling at BUNYIP, LONGWARRY, WARRAGUL, MOE, HERNE'S OAK, MORWELL and TRARALGON is controlled using visual display units located at CENTROL.

MORWELL and TRARALGON Single Line Section

At MARYVALE Signalling for the Up end of the Maryvale Exchange Siding is operated from Centrol, Switch locked points provide access to the Down end of Maryvale exchange, GIFT and MIS sidings.

The signals for through trains at TRARALGON are controlled from CENTROL and Key switch operation for local yard movements.

Train Staff and Ticket in accordance with Section 21 of the 1994 Book of Rules and Operating Procedures is in force between TRARALGON – SALE and SALE – BAIRNSDALE.

SALE can be closed as a Staff Station -

When Sale is closed as a Staff Station, the Train Staff and Ticket Section is TRARALGON - BAIRNSDALE

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5. SPECIAL NOTES

Pakenham - Bunyip; North and South Lines

The lease boundary between Metro Trains and V/Line is situated at the Signal Gantry located at KP 64.600

Signals PKM 770 and PKM 782 are on this Gantry.

Stratford - Avon River Bridge

The Avon River Bridge extends between distances 221.618 km and 222.112 km and is provided with a continuous walkway along the length of the bridge.

The walkway is not considered a Position of Safety and must only be accessed under a method of worksite protection that prevents the approach of rail traffic (ie: Absolute Occupation, Booked Out Track, Track Warrant or Track Force Protection).

Notice Boards are erected at both ends of the bridge indicating 'Walkway is No Position of Safety'.

The Notice Boards are provided with black lettering on a white background.

6. DISTANCES FROM MELBOURNE AND CLEAR LENGTH OF CROSSING ROADS

LOCATION	MARKED DISTANCE FROM MELBOURNE	PLATFORM LENGTH		CLEAR LENGTH OF CROSSING ROADS (LENGTH IN METRES)		
	(KM)	NO 1	NO 2	NO. 1	NO. 2	
PAKENHAM	58.193					
PAKENHAM (LEASE BOUNDARY)	64.600					
NAR-NAR-GOON	65.805	121	121			
TYNONG	70.803	141	141			
GARFIELD	74.935	138	138			
BUNYIP	79.088	159				
LONGWARRY	83.492	162				
DROUIN	92.224	150	150			
WARRAGUL	99.766	185	185		No. 2 Siding Track 685m	
YARRAGON	112.216	155	155			
TRAFALGAR	120.266	156	156			
MOE	130.225	148				
HERNE'S OAK	137.485			701	701	
MORWELL LOOP				1553	1553	
MORWELL STATION	144.372	201				
HAZELWOOD (G.I.F.T.) SIDING	147.700					
MARYVALE (A.P.M SIDING)	147.600					
MORWELL SHIRE INDUSTRIAL SIDING	148.647					
TRARALGON	158.072	160		330	330	
ROSEDALE	180.365	100				
SALE	206.021	159		600	600	
STRATFORD	222.108	162				
BOSWORTH ROAD SIDING	272.800			Bosworth Rd LX - 746 Do	wn End Bosworth Rd LX - 365	
BAIRNSDALE	274.848	125		311	311	

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7. TRACK CLASS

Track is maintained to the following class standards:

SECTION			CLASS
PAKENHAM – MOE	North Line	64.600 km – 129.550 km	CLASS 2M
PAKENHAM – TRARALGON	South Line	60.835 km – 85.516 km	CLASS 1
	South Line	85.516 km – 98.394 km	CLASS 2M
	South Line	98.394 km – 102.184 km	CLASS 1
	South Line	102.184 km – 103.191 km	CLASS 2M
	South Line	103.191 km – 130.940 km	CLASS 1
	South Line	130.940 km – 136.175 km	CLASS 2
	South Line	136.175 km – 139.040 km	CLASS 1
	South Line	139.040 km – 141.333 km	CLASS 2M
	South Line	141.333 km – 145.561 km	CLASS 1
	South Line	145.561 km – 147.822 km	CLASS 2M
	South Line	147.822 km – 156.898 km	CLASS 1
	South Line	156.898 km – 158.070 km	CLASS 2M
TRARALGON - BAIRNSDALE		158.070 km – 274.850 km	CLASS 3

8. PROTECTED LEVEL CROSSINGS

NAME AND KMS OF NEAREST STATION	LEVEL CROSSING	DISTANCE (KM)	TYPE	LOCATION NUMBER	VICROADS ID NO.
PAKENHAM – 58.193	Mt Ararat Road	63.313	BB	D0633	
NAR NAR GOON – 65.805	Koo-wee-rup Road	65.674	BB, PG	D0656	
	Nar Nar Good Pedestrian Access over North Line to Station	65.800	PG	D0658	
TYNONG - 70.803	Tynong Road	70.375	BB, PG	D0703	
BUNYIP - 79.088	McIntyre Road	76.630	BB	D0766	
	Hope Street (Iona Road)	78.635	BB, PG	D0786	
	Bunyip Down End Station Access	79.200	PG	D0792	
LONGWARRY - 83.492	Yannathan Road	83.559	BB, PG	D0835	
DROUIN - 92.224	Gardener's Road ♦	89.828	BB	D0898	
	Lardner's Track (North Line Only) ψ	95.625	BB	D0956	5161
WARRAGUL – 99.766	Colman Street ₩	98.547	BB, PG	D0985	5158
	Occupation Crossing	108.664	BB	D1086	
YARRAGON - 112.216	Yarragon Station Platforms (Down end)	112.270	PG	D1122	
	Shady Creek Road ₩	112.605	BB, PG	D1126	6631
	Nine Mile Road	116.152	BB	D1161	
TRAFALGAR – 120.266	Ashby Street ₩	119.945	BB, PG	D1199	6697
	Trafalgar Station Platforms (Up end)	120.185	PG	D1201	
	Waterloo Road	121.288	BB	D1213	
	Telephone Road	123.227	BB	D1235	
MOE - 130.225	Lloyd Street	129.445	BB, PG	D1294	
	Moe Down End Station Access	130.234	PG	D1302	
MORWELL - 144.372	Tramway Road 🍨	148.244	BB	D1482	
	Occupation Crossing *	149.941	FL	D1492	
TRARALGON - 158.072	Banks Street *	155.494	BB	D1554	
	Liddiard Road €	159.310	BB	DS1593	
	McNairn Road €	160.221	BB PG EGL	DS1602	
	Minniedale Road € ψ	163.016	BB	DS1630	6600
	Barrs Lane 8	168.960	FL	DS1689	
ROSEDALE - 180.365	Flynns Creek Road €	172.235	BB	DS1722	
	Wrights Lane &	175.254	BB	DS1752	
	Rosedale - Flynns Creek Road €	178.406	BB	DS1784	
	Friends Road €	179.202	FL	DS1792	
	Willung Road €	180.523	BB	DS1805	
	Longford Road €	184.298	BB	DS1842	
	Settlement Road €	191.638	FL	DS1916	

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	PAKENHAM T	O BAIRNSDAL	.E		
BROAD GAUGE NAME AND KMS OF NEAREST STATION	LEVEL CROSSING	DISTANCE (KM)	TYPE	LOCATION NUMBER	VICROADS ID NO.
SALE - 206.021	Velore Road €	194.105	BB	DS1941	
	Sale-Cowwarr Road €	197.454	BB	DS1974	
	Aerodrome Road €	199.177	FL	DS1991	
	Sale-Heyfield Road € ♣	200.144	BB	DS2001	19022
	Hunt Place €	203.891	BB	DS2038	
	Raglan Street 8	206.878	BB PG EGL	D2068	
	Maffra Road 8 ♣	207.895	BB	D2078	19025
	Myrtlebank Road €	210.315	BB	D2103	
	Yuill / Baxter Road €	211.348	FL	D2113	
	Montgomery Road €	214.294	BB	D2142	
STRATFORD - 222.108	Falls Lane Ω	217.542	BB	D2175	
	McAlister Street &	221.839	BB PG	D2218	
	Hobson Street €	222.234	FL	D2222	
	Princes Highway 8	222.535	BB	D2225	
	Reeves Road Ω	228.341	BB BB	D2283	
	Swallow Lagoon Road Ω Munro/Stockdale Road €	230.924 233.012	FL	D2309 D2330	
		233.012	FL	D2330 D2460	
BAIRNSDALE – 274.484	Dargo-Fernbank Road € Fernbank – Lindenow South Road €	251.270	BB	D2460 D2512	
5/11/10 <i>5/1</i> 12 2/4.404	Buntines Road Ω	254.131	BB	D2541	
	Lindenow Road 8	257.301	FL	D2573	
	Scotts Road Ω	260.586	ВВ	D2605	
	Hillside Road 8	263.055	FL	D2630	
	Buchanans Lane 8	265.874	FL	D2658	
	Marriage Lane Ω	267.726	BB	D2677	
	Power Station Road Ω	269.163	ВВ	D2691	
	Princes Highway 8 ♣	270.944	ВВ	D2709	7269
	Bosworth Road €	272.484	ВВ	D2724	
	Ligar Street €	274.172	BB	D2741	

BB – Boom Barriers CC – Crib Crossing FL – Flashing Lights PG – Pedestrian Gates

EGL – Electric Gate Latches

Note * Indicates those level crossings where an increase in speed may be permitted if the train is travelling at or above 50km/h upon passing the predictor indicator board.

At these level crossings indicated above operated with Level Crossing Predictors, the Predictor boards will be placed in accordance with Rule 9 (Section 36) of the Book of Rules and Operating Procedures.

Note Level crossing fitted with VicRoads Active Advance Warning Signs. Warning sign faults are to be reported to the VicRoads Fault Centre on 131170.

Note 2 Indicates those level crossings are operated through Axle Counter Equipment. Reset of this equipment will be in accordance with Operating Procedure 34-130F.

Note w Level crossing coordinated with Traffic Lights. Faults are to be reported to the VicRoads Fault Centre on 131170.

Note Ω Indicates those level crossings are operated through Axle Counter Equipment. Reset of this equipment will be in accordance with, Procedure 34 - 133 Axle Counter Level Crossing Reset Procedure from Section 34 of Book of Rules and Operating Procedures

Note Indicates those level crossings fitted with Electronic Wheel Sensors (EWS) in accordance with Operating Procedure No 34 – 133 (EWS)