

## South Western Rail Timetable: anticipated implications for Epsom and Ewell – Summary note.

### Key frequencies

The tables below show how frequently trains will call at key stations in the network under the new timetable.

	Arrivals at Waterloo 0800-0859		
	May 2019	May 2021	December 2022
Basingstoke (fast trains)	4	4	4
Epsom	6	4	4
Guildford (fast trains)	6	4	4
Putney	10	10	10
Richmond (fast trains)	8	5	8
Staines (fast trains)	8	5	7
Surbiton	10	7	11
Wimbledon	18	14	16
Winchester (fast trains)	5	4	4
Woking (fast trains)	12	10	11

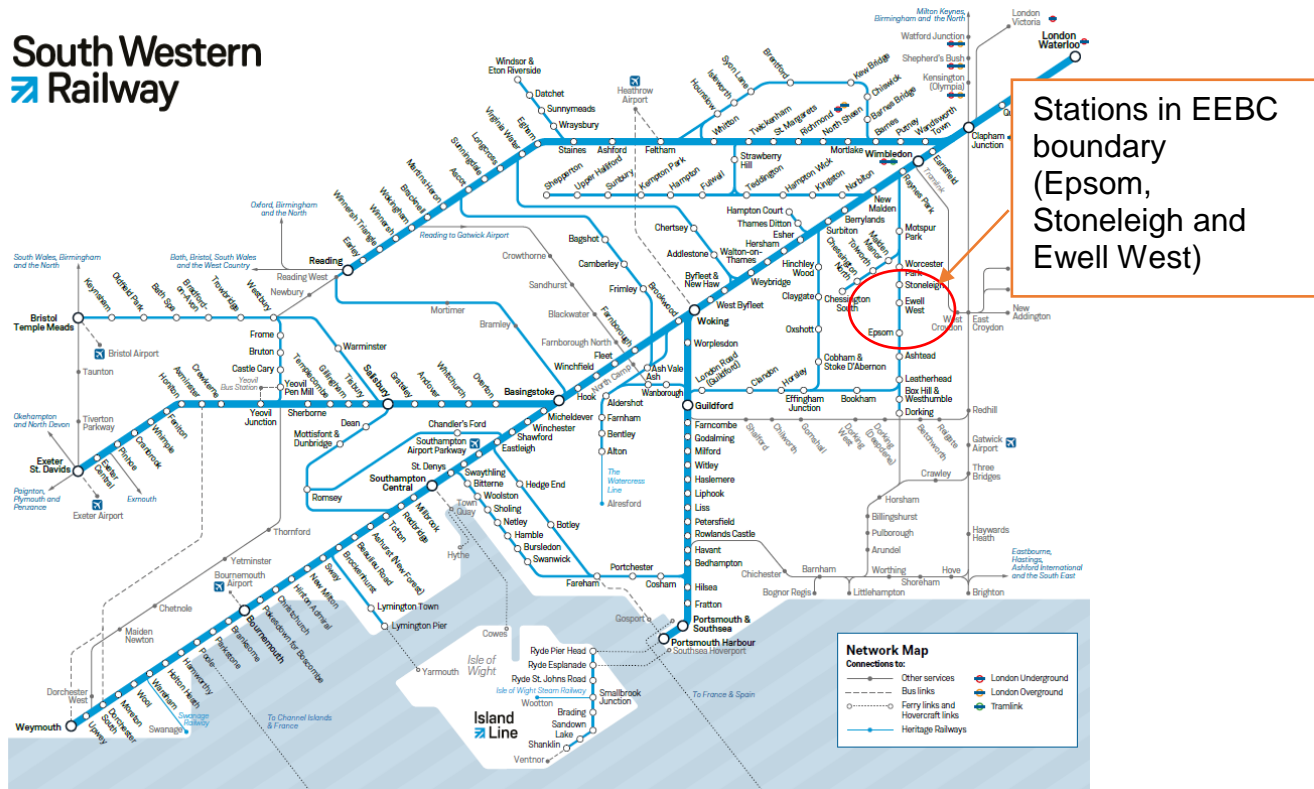
	Off peak arrivals at Waterloo per hour		
	May 2019	May 2021	December 2022
Basingstoke (fast trains)	5	3	5
Epsom	4	2	2
Guildford (fast trains)	4	3	3
Putney	10	6	8
Richmond (fast trains)	4	4	4
Staines (fast trains)	4	4	4
Surbiton	10	10	10
Wimbledon	16	14	14
Winchester (fast trains)	4	3	4
Woking (fast trains)	12	10	11

1. Frequencies in the context of all stations in EEBC (which Dec. 22 timetable will be based on).

Station	On Peak trains into London			Off Peak trains into London		
	South Western Services	Southern Services	Total	South Western Services	Southern Services	Total
Epsom	4	7	11	2	5/6*	7/8
Stoneleigh	4	0	4	2	0	2
Ewell West	4	0	4	2	0	2
Ewell East	0	5	5	0	4	4
Cheam	0	7	7	0	5/6	5/6

\*Based on snapshot of two hours during off peak period according to Southern Rail timetables.

2. Stations on South Western Rail Routes impacted (not Ewell East or Cheam):



### *Background*

3. Proposed timetable changes are based on findings of Network Rail South West Main Line Strategic Study (looking forward to 2050) published July 2021.
  - a. Expected that commuter travel from Dec 2022 is expected to recover to 60% of Pre Covid demand.
  - b. Study found that “Performance and satisfaction improve significantly when fewer trains run while still meeting demand for our services”

### *What’s proposed:*

4. Introducing 90 new *Arterio* trains to network. They carry more people, use 30% less energy, have onboard wifi, real-time travel updates. For every five-car train, 3 bike spaces will be available (6 for every 10 car train).
5. Reduction in frequency of trains from pre pandemic levels, crucially for Epsom, on the “Main Suburban” routes to ease congestion at points on the network closer to Waterloo. Aiming to retain 2 trains per hour off peak. NB: South Western Rail is one of two companies operating out of Epsom Station (the other is Southern Rail).
6. The consultation document does not provide a breakdown of how the new trains compare with existing services on the lines running through Epsom specifically. However, a cursory search reveals that *Arterio* trains comprise either 5 or 10 carriages. The existing trains operating on the lines through Epsom are “Class 455” models, which, by comparison, are 4 carriages long.
7. Though only speculation, it is considered likely that the 4 carriage 455 models will be replaced with 5 *Arterio* carriage trains (rather than the 10 car ones).
8. Based on this assumption, the new trains will actually have **5 seats less in total**. According to information available online, 5 car *Arterio* trains offer 330 standing spaces, giving a total passenger capacity of 599. Unfortunately the standing capacity of class 4 models is not available. Therefore, although it would appear that *Arterio* trains could accommodate 325 more passengers than the class 455 ones, at this stage we cannot verify this.
9. In terms of cycle spaces, the information for the class 455 trains is not available. It would appear that there are no dedicated cycle spaces (it is assumed that passengers share the vestibule areas) and so the new trains will be significantly better in terms of bike capacity.

*Summary of findings*

Model	Carriages	Seats	Standing	Priority Seats	Total capacity	Bicycle spaces
Class 455 model <sup>1</sup>	4	244	Not known	30	274	Non dedicated
Arterio <sup>2</sup>	5	556	740	Not known	1296	3
Arterio <sup>3</sup>	10	269	330	Not Known	599	6


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<sup>1</sup> <https://www.southwesternrailway.com/travelling-with-us/our-trains/class-455>

<sup>2</sup> "Britain's New Trains". *Britain's New Trains* (1): 39. 16 December 2018. Cited on Wikipedia accessed 19/8/21

<sup>3</sup> "Britain's New Trains". *Britain's New Trains* (1): 39. 16 December 2018. Cited on Wikipedia accessed 19/8/21

Lines serving Epsom and Ewell affected by new timetable:

London Waterloo to Dorking	
	
Peak frequency	Two trains per hour to/from London.
Off peak frequency	One train per hour to/from London.
Calling at	All stations.
Rationale	In order to reduce congestion on the inner parts of the network we propose to reduce frequency to Epsom and Dorking as these stations are also served by Southern services from London Bridge and London Victoria.

London Waterloo to Guildford via Leatherhead	
	
Peak frequency	Two trains per hour hourly to/from London.
Off peak frequency	One train per hour to/from London.
Calling at	All stations.
Rationale	In order to reduce congestion between London Waterloo and Wimbledon we propose not to reinstate certain services from Guildford via Leatherhead. As above the Epsom line is also served by Southern services from London Bridge and London Victoria, while stations between Effingham Junction and London Road (Guildford) are served by services via Cobham, which is the faster route to London.  Bookham will therefore be the only station to receive one train per hour. This station has relatively low use off peak, with an average of 5 people using each service in May 2019.

Basis of assumption for frequency of Southern Services.

Southern services arriving in London between 0800-08:59 (On Peak) (8)

Alerts Operator Facilities Notes		SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN
Horsham 4	HRH d	0645				0713							0814
Warnham	WNH d	0649				0718							0818
Ockley	OLY d	0655				0724							0824
Holmwood	HLM d	0659				0728							0828
Dorking 4	DKG a	0706				0735							0835
Dorking 4	DKG d	0657	0706			0736			0807				0836
Box Hill & Westhumble	BXW d		0709			0739							0839
Leatherhead	LHD d	0704	0714			0744			0814				0844
Ashtead	AHD d	0708	0718			0748			0818				0848
Epsom 3	EPS a	0713	0723			0753			0823				0853
Epsom 3	EPS d	0715	0723	0730	0745	0753	0801	0815	0824	0831	0845	0853	0901
Ewell East	EWE d	0719		0735	0749		0805	0819		0835	0849		0905
Cheam	CHE d	0722	0729	0738	0752	0759	0808	0822	0829	0838	0852	0859	0908
Sutton (Surrey) 4	SUO a	0725	0731	0741	0755	0801	0811	0825	0832	0841	0855	0901	0911
Carshalton Beeches	CSB a	0728			0758			0828					0859
Wallington	WLT a	0731			0801			0831					0901
Waddon	WDO a	0735			0805			0834					0905
West Croydon 4	WCY a	0739			0809			0839					0909
Norwood Junction 4	NWD a	0745			0815			0845					0915
London Bridge 4	LBG a	0758			0828			0858			0928		
Carshalton	CSH a		0735	0745		0805	0815		0835	0845		0905	0915
Hackbridge	HCB a		0738	0748		0807	0818		0838	0848			0918
Mitcham Junction	MIJ a		0741	0751		0811	0821		0841	0851			0921
Mitcham Eastfields	MTC a		0745	0754		0814	0824		0845	0854			0924
Balham 4	BAL a			0802		0832				0903			0933
Clapham Junction 10	CLJ a		0754	0807		0825	0837		0855	0907		0923	0937
London Victoria 10	VIC a		0804	0816		0833	0845		0903	0919		0932	0945

Southern services arriving to London (Victoria and London Bridge) Off Peak (between 5 and 6 per hour)

Alerts Operator Facilities Notes		SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN
Horsham 4	HRH d					0914								1014
Warnham	WNH d					0918								1018
Ockley	OLY d					0924								1024
Holmwood	HLM d					0928								1028
Dorking 4	DKG a					0935								1035
Dorking 4	DKG d		0907			0936			1007					1107
Box Hill & Westhumble	BXW d					0939								1039
Leatherhead	LHD d		0914			0944			1014					1044
Ashtead	AHD d		0918			0948			1018					1048
Epsom 3	EPS a		0923			0953			1023					1053
Epsom 3	EPS d	0915	0923	0931	0945	0953	1001	1015	1023	1031	1045	1053	1101	1115
Ewell East	EWE d	0915		0935	0949		1005	1019		1035	1049		1105	1119
Cheam	CHE d	0921	0929	0938	0952	0959	1008	1022	1029	1038	1052	1059	1108	1122
Sutton (Surrey) 4	SUO a	0925	0931	0941	0955	1001	1011	1025	1031	1041	1055	1101	1111	1125
Carshalton Beeches	CSB a	0925			0959			1029			1059			1129
Wallington	WLT a	0931			1001			1031			1101			1131
Waddon	WDO a	0935			1005			1035			1105			1135
West Croydon 4	WCY a	0935			1009			1039			1109			1139
Norwood Junction 4	NWD a	0945			1015			1045			1115			1145
London Bridge 4	LBG a	0955			1028			1058			1128			1158
Carshalton	CSH a		0935	0945		1005	1015		1035	1045		1105	1115	1135
Hackbridge	HCB a			0948		1018				1048				1118
Mitcham Junction	MIJ a			0951		1021				1051				1121
Mitcham Eastfields	MTC a			0954		1024				1054				1124
Balham 4	BAL a			1003		1033				1103				1133
Clapham Junction 10	CLJ a		0953	1007		1023	1037		1053	1107		1123	1137	1153
London Victoria 10	VIC a		1003	1015		1031	1045		1101	1115		1132	1145	1201