

HS8/HS9 Mk2 Route Loadings

Introduction

Deriving the route loadings for a given service plan can be a difficult and tedious matter, and very prone to error. Furthermore, understanding what a given loading consists of can be problematic at a later time, requiring effectively as much effort to interpret as it originally took to produce (the only way reliably to work it out is effectively to regenerate it). The problem is especially acute with HS3 Mk2, since this is the most complicated of the various routes, involving the most elaborate mix of services and extensive interactions with other routes, most particularly HS8 and HS9.

For my own convenience as much as anything else, the present article elucidates the route loadings corresponding to service plans 2 and 3. Service Plan 2 is the full service plan for HS8/HS9 Mk1A, and SP3 for Mk2. The fundamental change at Mk2 is the quadrupling between Broughton and Guide Bridge HS junctions. Other than that, the changes on HS8 are few, and confined to the Nottingham – Elt section. There are no other changes on HS9.

The present article, though really of no interest to anyone but myself, will nonetheless be published on the website, just in case anyone feels moved to challenge my figures, in which case they will be able to see how I derived them, without having to challenge me personally.

The service plans are given in full, since otherwise the information would not be self-contained, and would require consulting the original Route and Service Plans article also.

Service Plan 2

Non-Transpennine Services:

- 2tphH Liverpool Lime St. – Crewe – Old Oak Common – Euston Cross [-> Hastings – Eastbourne]
- 2tphH Preston – Crewe – Old Oak Common – Euston Cross [-> Hastings – Eastbourne]
- 1tphH Liverpool Lime St. – Preston (splits/joins) –
– Oxenholme – Carlisle – Lockerbie – Haymarket – Edinburgh Waverley
– Lancaster – Penrith – Carlisle – Lockerbie – Glasgow Central
- 1tphH Birmingham HS – Crewe – Preston (splits/joins) –
– Oxenholme – Carlisle – Lockerbie – Haymarket – Edinburgh Waverley
– Lancaster – Penrith – Carlisle – Lockerbie – Glasgow Central

Southern Transpennine Services:

HS8:

- 2tphH Preston – Bolton – Manchester Victoria (LL) – Manchester HS – Sheffield HS – Nottingham – Melton Mowbray – Peterborough – March – Ely (reverse) – Norwich

Thar's all. The other services are HS3.

Regional Metro:

(Note that **all** these services have the stopping pattern: Manchester Oxford Rd. – Manchester Piccadilly – Stockport – Chinley – Sheffield Midland, which will not be repeated):

- 2tphR Morecambe – Lancaster – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Manchester Oxford Rd. —> Sheffield Midland (reverse) – Chesterfield – Alfreton and Mansfield Parkway – Langley Mill – Nottingham – Melton Mowbray – Oakham – Stamford – Peterborough – March – Ely (split/joins) –:
– (reverse) Thetford – Wymondham – Norwich
– Cambridge – Stansted Airport
- 2tphR Blackpool North – Poulton le Fylde – Kirkham – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Manchester Oxford Rd. —> Sheffield Midland – South Yorkshire – Rotherham – Mexborough – Doncaster – Thorne South – Scunthorpe – Barnetby – Grimsby Town – Cleethorpes
- 2tphR Southport – Wigan Wallgate – Bolton – Salford Crescent – Manchester Oxford Rd. —> Sheffield Midland – South Yorkshire – Rotherham – Mexborough – Doncaster – Thorne North – Goole – Brough – Hull
- 2tphR Liverpool Lime St. – Liverpool South Parkway – Widnes – Warrington Central – Manchester Oxford Rd. —> Sheffield Midland – Worksop – Retford (LL) – Gainsborough Lea Road – Lincoln – Sleaford – Boston – Wainfleet – Skegness

The following extracts from other routes' service plans include only those services which contribute to HS8's loadings. They are thus not complete SPs (though, in HS3's case, almost so).

HS3 Long Distance UHS:

- 2tphH Glasgow St. Enoch – Glasgow Bellgrove – Edinburgh Airport – Haymarket – Edinburgh Waverley HS – Hawick – Hexham – Consett – Durham (Relly Mill) – Darlington – York – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Lewes – Eastbourne
- 2tphH Glasgow St. Enoch – Glasgow Bellgrove – Edinburgh Airport – Haymarket – Edinburgh Waverley HS – Lauder – Hawick – Hexham – Newcastle
- 2tphH Carlisle – stations to Hexham – Newcastle
- 2tphH Newcastle – Consett – Durham (Relly Mill) – Darlington – :
Middlesborough – Thornaby – Eaglescliffe – Yarm – Northallerton – :
York HS (joins / splits) – South Yorkshire HL – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Lewes – Newhaven Town – Newhaven Marine
- 2tphH Liverpool Lime St. – (Manchester) Victoria LL – Manchester HS – Sheffield HS – Pancras Cross – Victoria (LL) – East Croydon – Tonbridge – Tunbridge Wells – Tunbridge Wells West
- 2tphH York HS – Leeds HS – Wakefield Westgate – South Yorkshire HL – Pancras Cross – Victoria (LL) – East Croydon – Tonbridge – Tunbridge Wells – Tunbridge Wells West
- 2tphH Halifax – Bradford City – Shipley –:
Skipton – Keighley – Shipley –:
Leeds City (joins / splits) – South Yorkshire HL – Pancras Cross – Victoria (LL) – East Croydon – Tonbridge – Tunbridge Wells – Tunbridge Wells West
- 2tphH Barnsley –:
South Yorkshire LL – Rotherham –:
Sheffield Midland (joins / splits) – Chesterfield – Pancras Cross – Victoria (LL) – East Croydon – Tonbridge – Tunbridge Wells – Tunbridge Wells West

HS3 Metro:

- 2tphH York HS – Leeds HS – Huddersfield – Sheffield HS – Nottingham – Leicester – Northampton – Luton & Dunstable Parkway – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Brighton
- 2tphH Preston – Bolton – (Manchester) Victoria (LL) – Manchester HS – Sheffield HS – Nottingham – Leicester – Northampton – Luton & Dunstable Parkway – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Brighton

MML and other Regional Metro:

- 2tphR St. Pancras – St. Albans – Luton Airport Parkway – Luton – Bedford – Wellingborough – Kettering – Corby – Oakham – Melton Mowbray – Nottingham – Langley Mill – Alfreton & Mansfield Parkway – Chesterfield – Sheffield Midland – Rotherham – Pontefract – York (note that this uses HS3 on the approach to Nottingham)
- 2tphR Worcester Shrub Hill – Droitwich Spa – Bromsgrove – University – Birmingham New St. – Coleshill Parkway – Nuneaton – Hinckley – Leicester – Melton Mowbray – Oakham – Stamford – Peterborough – March – Ely – Bury St. Edmunds – Ipswich – Harwich International – Harwich Town

- 2tphR Morecambe – Lancaster – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Manchester Oxford Road – Manchester Piccadilly – Stockport – Chinley – Sheffield (reverse) – Chesterfield – Alfreton and Mansfield Parkway – Langley Mill – Nottingham – Melton Mowbray – Oakham – Stamford – Peterborough – March – Ely (splits / joins) – :
– (reverse at Ely) Thetford – Wymondham – Ely (reverse) – Norwich
– Cambridge – Stansted Airport
- 2tphR Edinburgh Waverley – Drem – Dunbar – Berwick-upon-Tweed – Alnmouth – Morpeth – Newcastle – Chester le Street – Durham – Darlington – Northallerton – Thirsk – York

HS6 West of Ely, and HS10:

- 2tphH Hull Paragon – Brigg – Gainsborough Central – Lincoln – Sleaford – Peterborough – Ely – Cambridge – Stansted Airport – Stratford HS North – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Horsham – Arundel – Chichester – Portsmouth and Southsea – Gosport – Hythe – Southampton
- 2tphH Hull Paragon – Brigg – Gainsborough Central – Lincoln – Sleaford – Peterborough – Ely (reverse) – Norwich
- 2tphH Cleethorpes – Grimsby Town – Market Rasen – Lincoln – Newark Northgate – :
Skegness – Wainfleet – Boston – Sleaford – :
Grantham (joins / splits) – Peterborough – March – Ely – Cambridge – Stansted Airport – Stratford HS North – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Horsham – Arundel (splits / joins) – :
– Bognor
– Littlehampton
- 2tphH Edinburgh Waverley – Drem – Dunbar – Berwick-upon-Tweed – Alnmouth – Morpeth – Newcastle – Durham – Darlington – :
Newcastle – Sunderland – Seaham – Hartlepool – Stockton – Eaglescliffe – Yarm – Northallerton – :
York (joins / splits) – Doncaster – Peterborough – Ely – Cambridge – Stansted Airport – Stratford HS North – St. Pancras (East)
- 2tphH Leeds City – Wakefield Westgate – Doncaster – Retford – Newark Northgate – Grantham – Peterborough – Ely – Cambridge – Stansted Airport – Stratford HS North – Stratford HS North – St. Pancras (East)

Regional Metro:

- 2tphR Harwich Town – Harwich International – Ipswich – Bury St. Edmunds – Ely – March – Peterborough – Stamford – Oakham – Melton Mowbray – Leicester – Hinckley – Nuneaton – Coleshill Parkway – Birmingham New Street – University – Bromsgrove – Droitwich Spa – Worcester Shrub Hill
- 2tphR Morecambe – Lancaster – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Manchester Oxford Rd. – Manchester Piccadilly – Stockport – Chinley – Sheffield Midland (reverse) – Chesterfield – Alfreton and Mansfield Parkway – Langley Mill – Nottingham – Melton Mowbray – Oakham – Stamford – Peterborough – March – Ely (split/joins):
– (reverse) Thetford – Wymondham – Norwich
– Cambridge – Stansted Airport

- 2tphRS Peterborough – Whittlesea – March – Manea – Ely – Kennett – Bury St. Edmunds – Thurston – Elmswell – Stowmarket – Needham Market – Ipswich

HS7 North of Birmingham:

- 2tphH Newcastle – Consett – Durham (Relly Mill) – Darlington – :
Middlesborough – Thornaby – Eaglescliffe – Yarm – Northallerton – :
York HS (joins / splits) – Leeds HS – Huddersfield – Sheffield HS – Derby – Birmingham Interchange – Worcester Shrub Hill – Cheltenham Spa – Bristol Parkway – Bristol Temple Meads – Taunton – Exeter St. David’s – Plymouth
- 2tphH Norwich – Ely (reverse) – Peterborough – Nottingham – Derby – Birmingham Interchange – Worcester Shrub Hill – Cheltenham Spa – Bristol Parkway – Newport – Cardiff Central – Cardiff (Rhoose) Airport – Bridgend – Port Talbot – Neath – Swansea
- 2tphH York HS – Leeds HS – Huddersfield – Sheffield HS – Derby – Birmingham HS.
- 2tphH Halifax – Bradford Central - Shipley – Leeds City – :
Skipton – Keighley – Shipley – Leeds City – :
(joins / Splits) – South Yorkshire HL – Sheffield Midland – Chesterfird – Derby – Birmingham HS.
- 2tphH Cleethorpes – Grimsby Town – Market Rasen – Lincoln – Newark Castle – Nottingham – Derby – Birmingham HS.
- 2tphH Skegness – Wainfleet – Boston – Sleaford – Lincoln – Newark Castle – Nottingham – Derby – Birmingham HS.

The Southern Transpennine services, HS and RM, all connect at Sheffield HS / Midland. The HS services have cross-platform interchange and the RM services have longer stops to allow for platform change. But there are exceptions to be noted: the HS3 service from Barnsley / South Yorkshire to Tunbridge Wells, and the HS7 service from Halifax / Skipton to Birmingham HS, both travel via Sheffield Midland, joining HS3 at Huthwaite Junction. The Representative Hourly Pattern is:

00H Preston – Norwich
H HS3 York – Pancras Cross [HS5 → Brighton] (HS Metro)

05H HS3 Barnsley / South Yorkshire LL – Pancras Cross [HS5 → Tunbridge Wells] (UHS)
(no connection) *(Sheffield Midland)*

10H HS7 Newcastle / Middlesborough – Plymouth
H HS7 Halifax / Skipton – Birmingham HS *(Sheffield Midland)*
R Blackpool – Cleethorpes

15H HS3 Preston – Pancras Cross [HS5 → Brighton] (HS Metro)
R Liverpool – Skegness

20R Morecambe – Norwich / Stansted Airport
(no connection)

25H Liverpool – Pancras Cross {HS5 → Tunbridge Wells} (UHS)
H HS7 York – Birmingham HS

– repeating at 30, 35, 40, 45, 50 and 55 minutes past.

Representative Hourly Cross-Platform Interchange Pattern at Nottingham:

00H	Preston – Norwich
H	HS3 York – Pancras Cross [HS5 → Brighton] (HS Metro)
07H	HS7 Newcastle / Middlesbrough – Plymouth
H	HS7 Birmingham – Cleethorpes
15H	HS3 Preston – Pancras Cross [HS5 → Brighton] (HS Metro)
R	Morecambe – Norwich / Stansted Airport
23H	HS7 Birmingham – Skegness (no connection)

– repeating at 30, 37, 45 and 53 minutes past.

Service plan 2 imposes the following loadings on HS8:

•	Liverpool Lime St.	– Kenyon West Junction	13tph
•	Kenyon West Junction	– Kenyon South Junction	2tph
•	Kenyon West Junction	– Kenyon North Junction	1tph
•	Kenyon West Junction	– Broughton Junction	10tph
•	Preston	– Gibb Farm Junction	14tph
•	Gibb Farm Junction	– Kenyon North Junction	4tph
•	Gibb Farm Junction	– Broughton Junction	10tph
•	Broughton Junction	– Guide Bridge HS Junction	20tph
•	Guide Bridge HS Junction	– Ladybower Junction	12tph
•	Paddock Junction	– Ladybower Junction	6tph
•	Ladybower Junction	– Woodburn HS Junction	18tph
•	Woodburn HS Junction	– Waleswood Junction	18tph
•	Waleswood Junction	– Wales Junction	14tph
•	Wales Junction	– Huthwaite Junction	26tph
•	Huthwaite Junction	– Nuthall North Junction	32tph
•	Nuthall North Junction	– Nuthall South Junction	24tph
•	Nuthall South Junction	– Strelley Junction	6tph
•	Strelley Junction	– Nottingham HS station	18tph
•	Nottingham HS station	– Manvers St. Junction	18tph
•	Manvers St. Junction	– Edwalton Junction	18tph
•	Edwalton Junction	– Asfordby Junction	12tph
•	Asfordby Junction	– Wymondham East Junction	4tph
•	Wymondham East Junction	– Thurlby Junction	4tph
•	Thurlby Junction	– Pellett Hall Junction	8tph
•	Pellett Hall Junction	– Peterborough Station (Midland lines)	18tph
•	Peterborough station	– Ely	18tph

HS9:

- 2tphH Liverpool Lime Street – Manchester Victoria (LL) – Manchester HS – Huddersfield – Leeds HS – York HS (splits / joins) –:
– Darlington – Durham (Relly Mill) – Consett – Newcastle
– Northallerton – Yarm – Eaglescliffe – Thornaby – Middlesborough
- 2tphH Liverpool Lime Street – Manchester Victoria (LL) – Manchester HS – Huddersfield – Leeds HS – Micklefield – York – Thirsk – Northallerton – Yarm – Eaglescliffe – Stockton – Hartlepool – Seaham – Sunderland – Newcastle
- 2tphH Preston – Bolton – Manchester Victoria (LL) – Manchester HS – Huddersfield – Leeds HS – Micklefield – Selby – Hull
- 2tphH Preston – Bolton – Manchester Victoria (LL) – Manchester HS – Huddersfield – Leeds HS – Micklefield – York – Malton – Seamer – Scarborough

Regional Metro:

(Note that **all** these services have the stopping pattern: Salford Central – Manchester Victoria – Stalybridge – Diggle – Marsden – Huddersfield – Mirfield – Dewsbury – Batley – Leeds City, which will not be repeated):

- 2tphR Chester – Helsby – Warrington Bank Quay – Newton le Willows – Salford Central —> Leeds City – Wetherby – Harrogate – Ripon – Northallerton – Yarm – Eaglescliffe – Stockton – Hartlepool – Seaham – Sunderland – Newcastle
- 2tphR Southport – Wigan Wallgate – Bolton – Salford Crescent – Salford Central —> Leeds City – Wetherby – Harrogate – Ripon – Northallerton – Yarm – Eaglescliffe – Thornaby – Middlesborough
- 2tphR Liverpool Lime St. – St. Helen's Junction – Newton le Willows – Salford Central —> Leeds City – Micklefield – York – Strensall – Malton – Rillington (NYMR) – Seamer – Scarborough
- 2tphR Blackpool North – Poulton le Fylde – Kirkham – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Salford Central —> Leeds City – Micklefield – Selby – Brough – Hull

The extracts from other routes' service plans given previously for Southern Transpennine in most cases affect HS9 also. They are not repeated here.

The Northern Transpennine services, HS and RM, all connect at Huddersfield. The HS services have cross-platform interchange and the RM services have longer stops to allow for platform change. The Representative Hourly Pattern is:

00H Liverpool – Newcastle / Middlesborough

H Preston – Scarborough

R Blackpool – Hull

07H [HS5 Brighton ->] HS3 Pancras Cross – York (HS Metro)

H Liverpool – Newcastle (via Stockton)

R Southport – Middlesborough

15H HS7 Plymouth – Newcastle

H Preston – Hull

R Liverpool – Scarborough

23H HS7 Birmingham HS – York

R Chester – Newcastle (via Stockton)

Service plan 2 imposes the following loadings on HS9:

- | | | |
|------------------------------|------------------------------|-------|
| • Guide Bridge HS Junction | – Paddock Junction | 8tph |
| • Paddock Junction | – Gelderd Rd. North Junction | 14tph |
| • Gelderd Rd. North Junction | – Garforth West Junction | 16tph |
| • Garforth West Junction | – Micklefield HS Junction | 6tph |
| • Garforth West Junction | – Garforth East Junction | 10tph |
| • Garforth East Junction | – York HS station | 16tph |
| • York HS station | – Poppleton Junction | 18tph |
| • Poppleton Junction | – Romanby Junction | 24tph |
| • Romanby Junction | – Derwent Hill Junction | 10tph |
| • Derwent Hill Junction | – Paradise Junction | 8tph |
| • Paradise Junction | – Newcastle station | 12tph |

Elucidation of the loadings:

1. Liverpool Lime St. – Kenyon West Junction
2tphH Liverpool – Newcastle / Middlesborough
2tphH Liverpool – Newcastle via Hartlepool
2tphH HS2/HS1 Liverpool – Eastbourne
1tphH HS2 Liverpool – Scotland
2tphH HS3/HS5 Liverpool – Tunbridge Wells
= 9tph
2. Kenyon West Junction – Kenyon South Junction
2tphH HS2/HS1 Liverpool – Eastbourne
= 2tph
3. Kenyon West Junction – Kenyon North Junction
1tphH HS2 Liverpool – Scotland
= 1tph
4. Kenyon West Junction – Broughton Junction
2tphH Liverpool – Newcastle / Middlesborough
2tphH Liverpool – Newcastle via Hartlepool
2tphH HS3/HS5 Liverpool – Tunbridge Wells
= 6tph
5. Preston – Gibb Farm Junction
2tphH Preston – Norwich
2tphH Preston – Hull (via Micklefield)
2tphH Preston – Scarborough
2tphH HS2/HS1 Preston – Eastbourne
1tphH HS2 Liverpool – Scotland
1tphH HS2 Birmingham – Scotland
2tphH HS3/HS5 Preston – Brighton
= 12tph
6. Gibb Farm Junction – Kenyon North Junction
2tphH HS2/HS1 Preston – Eastbourne
1tphH HS2 Liverpool – Scotland
1tphH HS2 Birmingham – Scotland
= 4tph
7. Gibb Farm Junction – Broughton Junction
2tphH Preston – Norwich
2tphH Preston – Hull (via Micklefield)
2tphH Preston – Scarborough
2tphH HS3/HS5 Preston – Brighton
= 8tph

8. Broughton Junction – Guide Bridge HS Junction
 - 2tphH Liverpool – Newcastle / Middlesborough
 - 2tphH Liverpool – Newcastle via Hartlepool
 - 2tphH Preston – Norwich
 - 2tphH Preston – Hull (via Micklefield)
 - 2tphH Preston – Scarborough
 - 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 - 2tphH HS3/HS5 Preston – Brighton
 - = 14tph
- (HS8 follows. HS9 continues from Guide Bridge HS Junction at #25.)
9. Guide Bridge HS Junction – Ladybower Junction
 - 2tphH Preston – Norwich
 - 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 - 2tphH HS3/HS5 Preston – Brighton
 - = 6tph
10. Paddock Junction – Ladybower Junction
 - 2tphH HS3/HS5 York – Brighton
 - 2tphH HS7 Newcastle / Middlesborough – Plymouth
 - 2tphH HS7 York – Birmingham HS
 - = 6tph
11. Ladybower Junction – Woodburn HS Junction
 - 2tphH Preston – Norwich
 - 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 - 2tphH HS3/HS5 Preston – Brighton
 - 2tphH HS3/HS5 York – Brighton
 - 2tphH HS7 Newcastle / Middlesborough – Plymouth
 - 2tphH HS7 York – Birmingham HS
 - = 12tph
12. Woodburn HS Junction – Waleswood Junction
 - 2tphH Preston – Norwich
 - 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 - 2tphH HS3/HS5 Preston – Brighton
 - 2tphH HS3/HS5 York – Brighton
 - 2tphH HS7 Newcastle / Middlesborough – Plymouth
 - 2tphH HS7 York – Birmingham HS
 - 2tphR Liverpool – Skegness
 - = 14tph
13. Waleswood Junction – Wales Junction
 - 2tphH Preston – Norwich
 - 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 - 2tphH HS3/HS5 Preston – Brighton
 - 2tphH HS3/HS5 York – Brighton

2tphH	HS7	Newcastle / Middlesborough – Plymouth
2tphH	HS7	York – Birmingham HS
= 12tph		

14. Wales Junction – Huthwaite Junction

2tphH	Preston – Norwich
2tphH	HS3/HS5 Glasgow – Eastbourne
2tphH	HS3/HS5 Newcastle / Middlesborough – Newhaven
2tphH	HS3/HS5 Liverpool – Tunbridge Wells
2tphH	HS3/HS5 York – Leeds HS – Tunbridge Wells
2tphH	HS3/HS5 Halifax / Skipton – Tunbridge Wells
2tphH	HS3/HS5 Preston – Brighton
2tphH	HS3/HS5 York – Brighton
2tphH	HS7 Newcastle / Middlesborough – Plymouth
2tphH	HS7 York – Birmingham HS
=20tph	

15. Huthwaite Junction – Nuthall North Junction

2tphH	Preston – Norwich
2tphH	HS3/HS5 Glasgow – Eastbourne
2tphH	HS3/HS5 Newcastle / Middlesborough – Newhaven
2tphH	HS3/HS5 Liverpool – Tunbridge Wells
2tphH	HS3/HS5 York – Leeds HS – Tunbridge Wells
2tphH	HS3/HS5 Halifax / Skipton – Tunbridge Wells
2tphH	HS3/HS5 Barnsley / South Yorkshire LL – Tunbridge Wells
2tphH	HS3/HS5 Preston – Brighton
2tphH	HS3/HS5 York – Brighton
2tphH	HS7 Newcastle / Middlesborough – Plymouth
2tphH	HS7 York – Birmingham HS
2tphH	HS7 Halifax / Skipton – Birmingham HS
=24tph	

16. Nuthall North Junction – Nuthall South Junction

2tphH	Preston – Norwich
2tphH	HS3/HS5 Glasgow – Eastbourne
2tphH	HS3/HS5 Newcastle / Middlesborough – Newhaven
2tphH	HS3/HS5 Liverpool – Tunbridge Wells
2tphH	HS3/HS5 York – Leeds HS – Tunbridge Wells
2tphH	HS3/HS5 Halifax / Skipton – Tunbridge Wells
2tphH	HS3/HS5 Barnsley / South Yorkshire LL – Tunbridge Wells
2tphH	HS3/HS5 Preston – Brighton
2tphH	HS3/HS5 York – Brighton
= 18tph	

17. Nuthall South Junction – Strelley Junction

2tphH	Preston – Norwich
2tphH	HS3/HS5 Preston – Brighton

2tphH HS3/HS5 York – Brighton
= 6tph

18. Strelley Junction – Nottingham HS station – Manvers St. Junction

2tphH Preston – Norwich
2tphH HS3/HS5 Preston – Brighton
2tphH HS3/HS5 York – Brighton
2tphH HS7 Swansea – Norwich
2tphH HS7 Birmingham HS – Cleethorpes
2tphH HS7 Birmingham HS – Skegness
= 12tph

19. Manvers St. Junction – Edwalton Junction

2tphH Preston – Norwich
2tphH HS3/HS5 Preston – Brighton
2tphH HS3/HS5 York – Brighton
2tphH HS7 Swansea – Norwich
2tphR York – St. Pancras via Melton Mowbray
2tphR Morecambe – Ely – Norwich / Stansted Airport
= 12tph

20. Edwalton Junction – Melton Junction

2tphH Preston – Norwich
2tphH HS7 Swansea – Norwich
2tphR York – St. Pancras via Melton Mowbray
2tphR Morecambe – Ely – Norwich / Stansted Airport
= 8tph

21. Melton Junction – Wymondham West Junction

2tphH Preston – Norwich
2tphH HS7 Swansea – Norwich
2tphR York – St. Pancras via Melton Mowbray
2tphR Morecambe – Ely – Norwich / Stansted Airport
2tphR Worcester Shrub Hill – Harwich Town
= 10tph

22. Wymondham West Junction – Thurlby Junction

2tphH Preston – Norwich
2tphH HS7 Swansea – Norwich
= 4tph

23. Thurlby Junction – Pellett Hall Junction

2tphH Preston – Norwich
2tphH HS7 Swansea – Norwich
2tphH HS10/ HS5 Hull – Southampton
2tphH HS10/ HS6 Hull – Norwich
= 8tph

24. Pellett Hall Junction – Peterborough
 2tphH Preston – Norwich
 2tphH HS7 Swansea – Norwich
 2tphH HS10/ HS5 Hull – Southampton
 2tphH HS10/ HS6 Hull – Norwich
 2tphH HS6/HS5 Cleethorpes / Skegness – Bognor / Littlehampton
 2tphH HS6 Edinburgh via Durham / Newcastle via Hartlepool – St. Pancras E.
 2tphH HS6 Leeds City – St. Pancras East
 2tphR Morecambe – Ely – Norwich / Stansted Airport
 2tphR Worcester Shrub Hill – Harwich Town
 = 18tph
25. Peterborough – Ely
 2tphH Preston – Norwich
 2tphH HS6/HS5 Cleethorpes / Skegness – Bognor / Littlehampton 2tphH HS7
 Swansea – Norwich
 2tphH HS10/ HS5 Hull – Southampton
 2tphH HS10/ HS6 Hull – Norwich
 2tphH HS6 Edinburgh via Durham / Newcastle via Hartlepool – St. Pancras E.
 2tphH HS6 Leeds City – St. Pancras East
 2tphR Morecambe – Ely – Norwich / Stansted Airport
 2tphR Worcester Shrub Hill – Harwich Town
 = 18tph
26. Guide Bridge HS Junction – Paddock Junction
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH Liverpool – Newcastle via Hartlepool
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 = 8tph
27. Paddock Junction – Gelderd Rd. North Junction
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH Liverpool – Newcastle via Hartlepool
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 2tphH HS7 Plymouth – Newcastle / Middlesborough
 2tphH HS7 Birmingham HS – York
 2tphH HS7/HS5 Brighton – York
 = 14tph
28. Gelderd. North Junction – Leeds HS – Garforth West Junction
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH Liverpool – Newcastle via Hartlepool
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 2tphH HS3/HS5 Tunbridge Wells – Leeds HS – York

2tphH HS3/HS5 Brighton – York
 2tphH HS7 Plymouth – Newcastle / Middlesborough
 2tphH HS7 Birmingham HS – York
 = 16tph

29. Garforth West – Garforth East Junction

2tphH Liverpool – Newcastle / Middlesborough
 2tphH HS3/HS5 Tunbridge Wells – Leeds HS – York
 2tphH HS3/HS5 Brighton – York
 2tphH HS7 Plymouth – Newcastle / Middlesborough
 2tphH HS7 Birmingham HS – York
 = 10tph

30. Garforth West Junction – Micklefield Junction

2tphH Liverpool – Newcastle via Hartlepool
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 = 6tph

31. Garforth East Junction – York HS

2tphH Liverpool – Newcastle / Middlesborough
 2tphH HS3/HS5 Eastbourne – Glasgow
 2tphH HS3/HS5 Newhaven – Newcastle / Middlesborough
 2tphH HS3/HS5 Tunbridge Wells – Leeds HS – York
 2tphH HS3/HS5 Brighton – York
 2tphH HS7 Plymouth – Newcastle / Middlesborough
 2tphH HS7 Birmingham HS – York
 = 14tph

32. York HS – Poppleton Junction

2tphH Liverpool – Newcastle
 2tphH Liverpool – Middlesborough
 2tphH HS3/HS5 Eastbourne – Glasgow
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS3/HS5 Newhaven – Middlesborough
 2tphH HS7 Plymouth – Newcastle
 2tphH HS7 Plymouth – Middlesborough
 = 14tph

(The Newcastle and Middlesborough portions split at York.)

33. Poppleton Junction – Romanby Junction
 2tphH Liverpool – Newcastle
 2tphH Liverpool – Middlesborough
 2tphH HS3/HS5 Eastbourne – Glasgow
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS3/HS5 Newhaven – Middlesborough
 2tphH HS6 St. Pancras East – Edinburgh via Durham
 2tphH HS6 St. Pancras East – Newcastle via Hartlepool
 2tphH HS7 Plymouth – Newcastle
 2tphH HS7 Plymouth – Middlesborough
 2tphR York – Edinburgh
 = 20tph
 (The Edinburgh and Newcastle portions of the HS6 service portions split at York ECML.)
34. Romanby Junction – Derwent Hill Junction
 2tphH Liverpool – Newcastle
 2tphH HS3/HS5 Eastbourne – Glasgow
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS7 Plymouth – Newcastle
 、
 = 8tph
35. Derwent Hill Junction – Paradise Junction
 2tphH Liverpool – Newcastle
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS7 Plymouth – Newcastle
 、
 = 6tph
36. Paradise Junction – Newcastle
 2tphH Liverpool – Newcastle
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS3 Glasgow - Newcastle
 2tphH HS3 Whitehaven – Carlisle – Newcastle
 2tphH HS7 Plymouth – Newcastle
 、
 = 10tph

Service Plan 3

Non-Transpennine Services:

- 2tphH Liverpool Lime St. – Crewe – Old Oak Common – Euston Cross [-> Hastings – Eastbourne]
- 2tphH Preston – Crewe – Old Oak Common – Euston Cross [-> Hastings – Eastbourne]
- 1tphH Liverpool Lime St. – Preston (splits/joins) –
– Oxenholme – Carlisle – Lockerbie – Haymarket – Edinburgh Waverley
– Lancaster – Penrith – Carlisle – Lockerbie – Glasgow Central
- 1tphH Birmingham HS – Crewe – Preston (splits/joins) –
– Oxenholme – Carlisle – Lockerbie – Haymarket – Edinburgh Waverley
– Lancaster – Penrith – Carlisle – Lockerbie – Glasgow Central

Southern Transpennine Services:

HS8:

- 2tphH Liverpool Lime St. – (Manchester) Victoria LL – Manchester HS – Sheffield HS – Worksop – Retford LL – Gainsborough Central – Brigg – Hull Paragon
- 2tphH Liverpool Lime St. – (Manchester) Victoria LL – Manchester HS – Sheffield HS – Worksop – Retford LL – Gainsborough Lea Road – Lincoln – Sleaford – Boston – Wainfleet – Skegness (Note that this was formerly an RM service.)
- 2tphH Preston – Bolton – Manchester Victoria (LL) – Manchester HS – Sheffield HS – Worksop – Retford LL – Gainsborough Central – Brigg – Grimsby Town – Cleethorpes
- 2tphH Preston – Bolton – Manchester Victoria (LL) – Manchester HS – Sheffield HS – Nottingham – Melton Mowbray – Peterborough – March – Ely (reverse) – Norwich

That's all. The other services are HS3.

Regional Metro:

(Note that **all** these services have the stopping pattern: Manchester Oxford Rd. – Manchester Piccadilly – Stockport – Chinley – Sheffield Midland, which will not be repeated):

- 2tphR Morecambe – Lancaster – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Manchester Oxford Rd. —> Sheffield Midland (reverse) – Chesterfield – Alfreton and Mansfield Parkway – Langley Mill – Nottingham – Melton Mowbray – Oakham – Stamford – Peterborough – March – Ely (split/joins) –:
– (reverse) Thetford – Wymondham – Norwich
– Cambridge – Stansted Airport
- 2tphR Blackpool North – Poulton le Fylde – Kirkham – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Manchester Oxford Rd. —> Sheffield Midland – South Yorkshire – Rotherham – Mexborough – Doncaster – Thorne South – Scunthorpe – Barnetby – Grimsby Town – Cleethorpes
- 2tphR Southport – Wigan Wallgate – Bolton – Salford Crescent – Manchester Oxford Rd. —> Sheffield Midland – South Yorkshire – Rotherham – Mexborough – Doncaster – Thorne North – Goole – Brough – Hull

(As noted above, The former RM service from Liverpool to Skegness is now HS.)

The following extracts from other routes' service plans include only those services which contribute to HS8's loadings. They are thus not complete SPs (though, in HS3's case, almost so).

HS3 Long Distance UHS:

- 2tphH Glasgow St. Enoch – Glasgow Bellgrove – Edinburgh Airport – Haymarket – Edinburgh Waverley HS – Hawick – Hexham – Consett – Durham (Relly Mill) – Darlington – York – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Lewes – Eastbourne
- 2tphH Glasgow St. Enoch – Glasgow Bellgrove – Edinburgh Airport – Haymarket – Edinburgh Waverley HS – Lauder – Hawick – Hexham – Newcastle
- 2tphH Carlisle – stations to Hexham – Newcastle
- 2tphH Newcastle – Consett – Durham (Relly Mill) – Darlington – :
Middlesborough – Thornaby – Eaglescliffe – Yarm – Northallerton – :
York HS (joins / splits) – South Yorkshire HL – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Lewes – Newhaven Town – Newhaven Marine
- 2tphH Liverpool Lime St. – (Manchester) Victoria LL – Manchester HS – Sheffield HS – Pancras Cross – Victoria (LL) – East Croydon – Tonbridge – Tunbridge Wells – Tunbridge Wells West
- 2tphH Preston – Bolton – (Manchester) Victoria LL – Manchester HS – Sheffield HS – Pancras Cross – Victoria (LL) – East Croydon – Tonbridge – Tunbridge Wells – Tunbridge Wells West
- 2tphH York HS – Leeds HS – Wakefield Westgate – South Yorkshire HL – Pancras Cross – Victoria (LL) – East Croydon – Tonbridge – Tunbridge Wells – Tunbridge Wells West
- 2tphH Halifax – Bradford City – Shipley –:
Skipton – Keighley – Shipley –:
Leeds City (joins / splits) – South Yorkshire HL – Pancras Cross – Victoria (LL) – East Croydon – Tonbridge – Tunbridge Wells – Tunbridge Wells West
- 2tphH Hull Paragon – Gilberdyke – Goole – Doncaster – South Yorkshire LL – Rotherham – Sheffield Midland – Chesterfield – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Horsham – Arundel HS – Chichester – Hayling Island – Portsmouth and Southsea
- 2tphH Barnsley –:
South Yorkshire LL – Rotherham –:
Sheffield Midland (joins / splits) – Chesterfield – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Horsham – Arundel HS – Chichester – Hayling Island – Portsmouth and Southsea
- 2tphH Derby – Nottingham – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Horsham – Arundel HS – Chichester – Hayling Island – Portsmouth and Southsea

Note that the service from Barnsley / South Yorkshire to Portsmouth and Southsea formerly terminated in Tunbridge Wells. Its former Tunbridge Wells slot has been taken over by the new service from Preston. Portsmouth and Southsea is a major new HS5 destination at Mk2.

HS3 Metro:

- 2tphH York HS – Leeds HS – Huddersfield – Sheffield HS – Nottingham – Leicester – Northampton – Luton & Dunstable Parkway – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Brighton
- 2tphH Preston – Bolton – (Manchester) Victoria (LL) – Manchester HS – Sheffield HS – Nottingham – Leicester – Northampton – Luton & Dunstable Parkway – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Brighton
- Derby – Nottingham – Melton Mowbray (reverse) – Leicester – Northampton – Luton & Dunstable Parkway – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Hove Shoreham-by-Sea – Worthing – Chichester
- Derby – Nottingham – Melton Mowbray (reverse) – Leicester – Rugby (GC) Calvert – Princes Risborough – High Wycombe – Bourne End – Maidenhead – Slough – LHR Interchange – Old Oak Common – Paddington
- 2tphH Newcastle – Consett – Durham (Relly Mill) – Darlington – :
Middlesborough – Thornaby – Eaglescliffe – Yarm – Northallerton – :
York HS (joins / splits) – South Yorkshire HL – Nottingham – Leicester – Rugby (GC) – Banbury – Oxford – Reading Parkway HL – Basingstoke HS – Winchester – Southampton Airport Parkway – Southampton Central – Brockenhurst – Bournemouth Central – Bournemouth West

MML and other Regional Metro:

- 2tphR St. Pancras – St. Albans – Luton Airport Parkway – Luton – Bedford – Wellingborough – Kettering – Corby – Oakham – Melton Mowbray – Nottingham – Langley Mill – Alfreton & Mansfield Parkway – Chesterfield – Sheffield Midland – Rotherham – Pontefract – York (note that this uses HS3 on the approach to Nottingham)
- 2tphR Worcester Shrub Hill – Droitwich Spa – Bromsgrove – University – Birmingham New St. – Coleshill Parkway – Nuneaton – Hinckley – Leicester – Melton Mowbray – Oakham – Stamford – Peterborough – March – Ely – Bury St. Edmunds – Ipswich – Harwich International – Harwich Town
- 2tphR Morecambe – Lancaster – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Manchester Oxford Road – Manchester Piccadilly – Stockport – Chinley – Sheffield (reverse) – Chesterfield – Alfreton and Mansfield Parkway – Langley Mill – Nottingham – Melton Mowbray – Oakham – Stamford – Peterborough – March – Ely (splits / joins) – :
– (reverse at Ely) Thetford – Wymondham – Ely (reverse) – Norwich
– Cambridge – Stansted Airport
- 2tphR Edinburgh Waverley – Drem – Dunbar – Berwick-upon-Tweed – Alnmouth – Morpeth – Newcastle – Chester le Street – Durham – Darlington – Northallerton – Thirsk – York

HS6 West of Ely, and HS10:

- 2tphH Hull Paragon – Brigg – Gainsborough Central – Lincoln – Sleaford – Peterborough – Ely – Cambridge – Stansted Airport – Stratford HS North – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Horsham – Arundel – Chichester – Portsmouth and Southsea – Gosport – Hythe – Southampton
- 2tphH Hull Paragon – Brigg – Gainsborough Central – Lincoln – Sleaford – Peterborough – Ely (reverse) – Norwich

- 2tphH Cleethorpes – Grimsby Town – Market Rasen – Lincoln – Newark Northgate –:
Skegness – Wainfleet – Boston – Sleaford –:
Grantham (joins / splits) – Peterborough – March – Ely – Cambridge – Stansted Airport –
Stratford HS North – Pancras Cross – Victoria (LL) – East Croydon – Gatwick Airport – Horsham
– Arundel (splits / joins) – :
– Bognor
– Littlehampton
- 2tphH Edinburgh Waverley – Drem – Dunbar – Berwick-upon-Tweed – Alnmouth – Morpeth –
Newcastle – Durham – Darlington –:
Newcastle – Sunderland – Seaham – Hartlepool – Stockton – Eaglescliffe – Yarm –
Northallerton –:
York (joins / splits) – Doncaster – Peterborough – Ely – Cambridge – Stansted Airport –
Stratford HS North – St. Pancras (East)
- 2tphH Leeds City – Wakefield Westgate – Doncaster – Retford – Newark Northgate – Grantham
– Peterborough – Ely – Cambridge – Stansted Airport – Stratford HS North – Stratford HS North
– St. Pancras (East)

Regional Metro:

- 2tphR Harwich Town – Harwich International – Ipswich – Bury St. Edmunds – Ely – March –
Peterborough – Stamford – Oakham – Melton Mowbray – Leicester – Hinckley – Nuneaton –
Coleshill Parkway – Birmingham New Street – University – Bromsgrove – Droitwich Spa –
Worcester Shrub Hill
- 2tphR Morecambe – Lancaster – Preston – Leyland – Chorley – Horwich Parkway – Bolton –
Salford Crescent – Manchester Oxford Rd. – Manchester Piccadilly – Stockport – Chinley –
Sheffield Midland (reverse) – Chesterfield – Alfreton and Mansfield Parkway – Langley Mill –
Nottingham – Melton Mowbray – Oakham – Stamford – Peterborough – March – Ely (split/joins):
– (reverse) Thetford – Wymondham – Norwich
– Cambridge – Stansted Airport
- 2tphRS Peterborough – Whittlesea – March – Manea – Ely – Kennett – Bury St. Edmunds –
Thurston – Elmswell – Stowmarket – Needham Market – Ipswich

HS7 North of Birmingham:

- 2tphH Newcastle – Consett – Durham (Relly Mill) – Darlington –:
Middlesborough – Thornaby – Eaglescliffe – Yarm – Northallerton – :
York HS (joins / splits) – Leeds HS – Huddersfield – Sheffield HS – Derby – Birmingham
Interchange – Worcester Shrub Hill – Cheltenham Spa – Bristol Parkway – Bristol Temple Meads
– Taunton – Exeter St. David's – Plymouth
- 2tphH Norwich – Ely (reverse) – Peterborough – Nottingham – Derby – Birmingham Interchange
– Worcester Shrub Hill – Cheltenham Spa – Bristol Parkway – Newport – Cardiff Central –
Cardiff (Rhoose) Airport – Bridgend – Port Talbot – Neath – Swansea
- 2tphH York HS – Leeds HS – Huddersfield – Sheffield HS – Derby – Birmingham HS.
- 2tphH Halifax – Bradford Central - Shipley – Leeds City –:
Skipton – Keighley – Shipley – Leeds City –:
(joins / Splits) – South Yorkshire HL – Sheffield Midland – Chesterfield – Derby –
Birmingham HS.

- 2tphH Cleethorpes – Grimsby Town – Market Rasen – Lincoln – Newark Castle – Nottingham – Derby – Birmingham HS.
- 2tphH Skegness – Wainfleet – Boston – Sleaford – Lincoln – Newark Castle – Nottingham – Derby – Birmingham HS.

The Southern Transpennine services, HS and RM, all connect at Sheffield HS / Midland. The HS services have cross-platform interchange and the RM services have longer stops to allow for platform change. But there are exceptions to be noted: the HS3 services from Hull and from Barnsley / South Yorkshire to Portsmouth and Southsea, and the HS7 service from Halifax / Skipton to Birmingham HS, all travel via Sheffield Midland, joining HS3 at Huthwaite Junction. The Representative Hourly Pattern is:

00H Preston – Norwich

H HS3 York – Pancras Cross [HS5 → Brighton] (HS Metro)

R Southport – Hull

05H Liverpool – Hull via Gainsborough Central

H HS3 Barnsley / South Yorkshire LL – Pancras Cross [HS5 → Portsmouth and Southsea] (UHS)
(*Sheffield Midland*)

10H HS3 Preston – Pancras Cross [HS5 → Tunbridge Wells] (UHS)

H HS7 Newcastle / Middlesbrough – Plymouth

H HS7 Halifax / Skipton – Birmingham HS (*Sheffield Midland*)

R Blackpool – Cleethorpes

15H Liverpool – Skegness (formerly RM)

H HS3 Preston – Pancras Cross [HS5 → Brighton] (HS Metro)

20H Preston – Cleethorpes via Gainsborough Central

H HS3 Hull – Pancras Cross [HS5 → Portsmouth and Southsea] (UHS) (*Sheffield Midland*)

R Morecambe – Norwich / Stansted Airport

25H Liverpool – Pancras Cross {HS5 → Tunbridge Wells} (UHS)

H HS7 York – Birmingham HS

– repeating at 30, 35, 40, 45, 50 and 55 minutes past.

Representative Hourly Cross-Platform Interchange Pattern at Nottingham:

00H Preston – Norwich

H HS3 York – Pancras Cross [HS5 → Brighton] (HS Metro)

07H HS7 Newcastle / Middlesbrough – Plymouth

H HS7 Birmingham – Cleethorpes

15H HS3 Preston – Pancras Cross [HS5 → Brighton] (HS Metro)

R Morecambe – Norwich / Stansted Airport

23H HS7 Birmingham – Skegness

(no connection)

– repeating at 30, 37, 45 and 53 minutes past.

HS8/HS9 Mk2 Route Loadings v2.1

Service plan 3 imposes the following loadings on HS8:

• Liverpool Lime St.	– Kenyon West Junction	13tph
• Kenyon West Junction	– Kenyon South Junction	2tph
• Kenyon West Junction	– Kenyon North Junction	1tph
• Kenyon West Junction	– Broughton Junction	10tph
• Preston	– Gibb Farm Junction	14tph
• Gibb Farm Junction	– Kenyon North Junction	4tph
• Gibb Farm Junction	– Broughton Junction	10tph
• Broughton Junction	– Guide Bridge HS Junction	20tph
• Guide Bridge HS Junction	– Ladybower Junction	12tph
• Paddock Junction	– Ladybower Junction	6tph
• Ladybower Junction	– Woodburn HS Junction	18tph
• Woodburn HS Junction	– Waleswood Junction	18tph
• Waleswood Junction	– Wales Junction	14tph
• Wales Junction	– Huthwaite Junction	26tph
• Huthwaite Junction	– Nuthall North Junction	32tph
• Nuthall North Junction	– Nuthall South Junction	24tph
• Nuthall South Junction	– Strelley Junction	6tph
• Strelley Junction	– Nottingham HS station	18tph
• Nottingham HS station	– Manvers St. Junction	18tph
• Manvers St. Junction	– Edwalton Junction	18tph
• Edwalton Junction	– Asfordby Junction	12tph
• Asfordby Junction	– Wymondham East Junction	4tph
• Wymondham East Junction	– Thurlby Junction	4tph
• Thurlby Junction	– Pellett Hall Junction	8tph
• Pellett Hall Junction	– Peterborough HS	12tph
• Peterborough HS	– Ely	12tph

The reduction in loading between Pellett Hall Junction, Peterborough and Ely is due to three services (one HS and two RM) remaining on the classic route via Peterborough (Midland lines) and March, whereas all the HS services but that one now travel on the new infrastructure via Peterborough HS and Wimblington.

Northern Transpennine Services:

HS9:

- 2tphH Liverpool Lime Street – Manchester Victoria (LL) – Manchester HS – Huddersfield – Leeds HS – York HS (splits / joins) –:
 - Darlington – Durham (Relly Mill) – Consett – Newcastle
 - Northallerton – Yarm – Eaglescliffe – Thornaby – Middlesborough
- 2tphH Liverpool Lime Street – Manchester Victoria (LL) – Manchester HS – Huddersfield – Leeds HS – Micklefield – York – Thirsk – Northallerton – Yarm – Eaglescliffe – Stockton – Hartlepool – Seaham – Sunderland – Newcastle
- 2tphH Preston – Bolton – Manchester Victoria (LL) – Manchester HS – Huddersfield – Leeds HS – Micklefield – Selby – Hull
- 2tphH Preston – Bolton – Manchester Victoria (LL) – Manchester HS – Huddersfield – Leeds HS – Micklefield – York – Malton – Seamer – Scarborough

Regional Metro:

(Note that **all** these services have the stopping pattern: Salford Central – Manchester Victoria – Stalybridge – Diggle – Marsden – Huddersfield – Mirfield – Dewsbury – Batley – Leeds City, which will not be repeated):

- 2tphR Chester – Helsby – Warrington Bank Quay – Newton le Willows – Salford Central —> Leeds City – Wetherby – Harrogate – Ripon – Northallerton – Yarm – Eaglescliffe – Stockton – Hartlepool – Seaham – Sunderland – Newcastle
- 2tphR Southport – Wigan Wallgate – Bolton – Salford Crescent – Salford Central —> Leeds City – Wetherby – Harrogate – Ripon – Northallerton – Yarm – Eaglescliffe – Thornaby – Middlesborough
- 2tphR Liverpool Lime St. – St. Helen’s Junction – Newton le Willows – Salford Central —> Leeds City – Micklefield – York – Strensall – Malton – Rillington (NYMR) – Seamer – Scarborough
- 2tphR Blackpool North – Poulton le Fylde – Kirkham – Preston – Leyland – Chorley – Horwich Parkway – Bolton – Salford Crescent – Salford Central —> Leeds City – Micklefield – Selby – Brough – Hull

The extracts from other routes’ service plans given previously for Southern Transpennine in most cases affect HS9 also. They are not repeated here.

The Northern Transpennine services, HS and RM, all connect at Huddersfield. The HS services have cross-platform interchange and the RM services have longer stops to allow for platform change. The Representative Hourly Pattern is:

00H Liverpool – Newcastle / Middlesborough
H Preston – Scarborough
R Blackpool – Hull

07H [HS5 Brighton ->] HS3 Pancras Cross – York (HS Metro)
H Liverpool – Newcastle (via Stockton)
R Southport – Middlesborough

15H HS7 Plymouth – Newcastle

H Preston – Hull

R Liverpool – Scarborough

23H HS7 Birmingham HS – York

R Chester – Newcastle (via Stockton)

Service plan 3 imposes the following loadings on HS9:

- | | | |
|------------------------------|------------------------------|-------|
| • Guide Bridge HS Junction | – Paddock Junction | 8tph |
| • Paddock Junction | – Gelderd Rd. North Junction | 14tph |
| • Gelderd Rd. North Junction | – Garforth West Junction | 16tph |
| • Garforth West Junction | – Micklefield HS Junction | 6tph |
| • Garforth West Junction | – Garforth East Junction | 10tph |
| • Garforth East Junction | – York HS station | 16tph |
| • York HS station | – Poppleton Junction | 18tph |
| • Poppleton Junction | – Romanby Junction | 24tph |
| • Romanby Junction | – Derwent Hill Junction | 10tph |
| • Derwent Hill Junction | – Paradise Junction | 8tph |
| • Paradise Junction | – Newcastle station | 12tph |

Elucidation of the loadings:

1. Liverpool Lime St. – Kenyon West Junction
 - 2tphH Liverpool – Newcastle / Middlesborough
 - 2tphH Liverpool – Newcastle via Hartlepool
 - 2tphH Liverpool – Hull via Gainsborough Central
 - 2tphH Liverpool – Skegness via Gainsborough Lea Road
 - 2tphH HS2/HS1 Liverpool – Eastbourne
 - 1tphH HS2 Liverpool – Scotland
 - 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 - = 13tph

(Note that the Liverpool – Skegness service was formerly RM.)
2. Kenyon West Junction – Kenyon South Junction
 - 2tphH HS2/HS1 Liverpool – Eastbourne
 - = 2tph
3. Kenyon West Junction – Kenyon North Junction
 - 1tphH HS2 Liverpool – Scotland
 - = 1tph
4. Kenyon West Junction – Broughton Junction
 - 2tphH Liverpool – Newcastle / Middlesborough
 - 2tphH Liverpool – Newcastle via Hartlepool
 - 2tphH Liverpool – Hull via Gainsborough Central
 - 2tphH Liverpool – Skegness via Gainsborough Lea Road
 - 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 - = 10tph
5. Preston – Gibb Farm Junction
 - 2tphH Preston – Norwich
 - 2tphH Preston – Hull (via Micklefield)
 - 2tphH Preston – Scarborough
 - 2tphH HS2/HS1 Preston – Eastbourne
 - 1tphH HS2 Liverpool – Scotland
 - 1tphH HS2 Birmingham – Scotland
 - 2tphH HS3/HS5 Preston – Tunbridge Wells
 - 2tphH HS3/HS5 Preston – Brighton
 - = 14tph
6. Gibb Farm Junction – Kenyon North Junction
 - 2tphH HS2/HS1 Preston – Eastbourne
 - 1tphH HS2 Liverpool – Scotland
 - 1tphH HS2 Birmingham – Scotland
 - = 4tph

7. Gibb Farm Junction – Broughton Junction
 2tphH Preston – Norwich
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 2tphH HS3/HS5 Preston – Tunbridge Wells
 2tphH HS3/HS5 Preston – Brighton
 = 10tph
8. Broughton Junction – Guide Bridge HS Junction
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH Liverpool – Newcastle via Hartlepool
 2tphH Liverpool – Hull via Gainsborough Central
 2tphH Liverpool – Skegness via Gainsborough Lea Road
 2tphH Preston – Norwich
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 2tphH HS3/HS5 Preston – Tunbridge Wells
 2tphH HS3/HS5 Preston – Brighton
 = 20tph

(HS8 follows. HS9 continues from Guide Bridge HS Junction at #25.)

9. Guide Bridge HS Junction – Ladybower Junction
 2tphH Liverpool – Hull via Gainsborough Central
 2tphH Liverpool – Skegness via Gainsborough Lea Road
 2tphH Preston – Norwich
 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 2tphH HS3/HS5 Preston – Tunbridge Wells
 2tphH HS3/HS5 Preston – Brighton
 = 12tph
10. Paddock Junction – Ladybower Junction
 2tphH HS3/HS5 York – Brighton
 2tphH HS7 Newcastle / Middlesborough – Plymouth
 2tphH HS7 York – Birmingham HS
 = 6tph
11. Ladybower Junction – Woodburn HS Junction
 2tphH Liverpool – Hull via Gainsborough Central
 2tphH Liverpool – Skegness via Gainsborough Lea Road
 2tphH Preston – Norwich
 2tphH HS3/HS5 Liverpool – Tunbridge Wells
 2tphH HS3/HS5 Preston – Tunbridge Wells
 2tphH HS3/HS5 Preston – Brighton
 2tphH HS3/HS5 York – Brighton
 2tphH HS7 Newcastle / Middlesborough – Plymouth

2tphH HS7 York – Birmingham HS
= 18tph

12. Woodburn HS Junction – Waleswood Junction

2tphH Liverpool – Hull via Gainsborough Central
2tphH Liverpool – Skegness via Gainsborough Lea Road
2tphH Preston – Norwich
2tphH HS3/HS5 Liverpool – Tunbridge Wells
2tphH HS3/HS5 Preston – Tunbridge Wells
2tphH HS3/HS5 Preston – Brighton
2tphH HS3/HS5 York – Brighton
2tphH HS7 Newcastle / Middlesborough – Plymouth
2tphH HS7 York – Birmingham HS
= 18tph

13. Waleswood Junction – Wales Junction

2tphH Preston – Norwich
2tphH HS3/HS5 Liverpool – Tunbridge Wells
2tphH HS3/HS5 Preston – Tunbridge Wells
2tphH HS3/HS5 Preston – Brighton
2tphH HS3/HS5 York – Brighton
2tphH HS7 Newcastle / Middlesborough – Plymouth
2tphH HS7 York – Birmingham HS
= 14tph

14. Wales Junction – Huthwaite Junction

2tphH Preston – Norwich
2tphH HS3/HS4 Newcastle / Middlesborough – Bournemouth West
2tphH HS3/HS5 Glasgow – Eastbourne
2tphH HS3/HS5 Newcastle / Middlesborough – Newhaven
2tphH HS3/HS5 Liverpool – Tunbridge Wells
2tphH HS3/HS5 Preston – Tunbridge Wells
2tphH HS3/HS5 York – Leeds HS – Tunbridge Wells
2tphH HS3/HS5 Halifax / Skipton – Tunbridge Wells
2tphH HS3/HS5 Preston – Brighton
2tphH HS3/HS5 York – Brighton
2tphH HS3/HS4 Newcastle / Middlesborough – Bournemouth West
2tphH HS7 Newcastle / Middlesborough – Plymouth
2tphH HS7 York – Birmingham HS
= 26tph

15. Huthwaite Junction – Nuthall North Junction

2tphH Preston – Norwich

2tphH HS3/HS4 Newcastle / Middlesborough – Bournemouth West

2tphH HS3/HS5 Glasgow – Eastbourne

2tphH HS3/HS5 Newcastle / Middlesborough – Newhaven

2tphH HS3/HS5 Preston – Tunbridge Wells

2tphH HS3/HS5 Liverpool – Tunbridge Wells

2tphH HS3/HS5 York – Leeds HS – Tunbridge Wells

2tphH HS3/HS5 Halifax / Skipton – Tunbridge Wells

2tphH HS3/HS5 Hull – Sherrfield Midland – Portsmouth and Southsea

2tphH HS3/HS5 Barnsley / South Yorkshire LL – Portsmouth and Southsea

2tphH HS3/HS5 Preston – Brighton

2tphH HS3/HS5 York – Brighton

2tphH HS3/HS4 Newcastle / Middlesborough – Bournemouth West

2tphH HS7 Newcastle / Middlesborough – Plymouth

2tphH HS7 York – Birmingham HS

2tphH HS7 Halifax / Skipton – Birmingham HS

= 32tph

(The Barnsley / South Yorkshire – Portsmouth and Southsea service formerly ran to Tunbridge Wells. The Tunbridge Wells slot has been taken by the new Preston service.)

16. Nuthall North Junction – Nuthall South Junction

2tphH Preston – Norwich

2tphH HS3/HS5 Glasgow – Eastbourne

2tphH HS3/HS5 Newcastle / Middlesborough – Newhaven

2tphH HS3/HS5 Preston – Tunbridge Wells

2tphH HS3/HS5 Liverpool – Tunbridge Wells

2tphH HS3/HS5 York – Leeds HS – Tunbridge Wells

2tphH HS3/HS5 Halifax / Skipton – Tunbridge Wells

2tphH HS3/HS5 Hull – Sherrfield Midland – Portsmouth and Southsea

2tphH HS3/HS5 Barnsley / South Yorkshire LL – Portsmouth and Southsea

2tphH HS3/HS5 Preston – Brighton

2tphH HS3/HS5 York – Brighton

2tphH HS3/HS4 Newcastle / Middlesborough – Bournemouth West

= 24tph

17. Nuthall South Junction – Strelley Junction

2tphH Preston – Norwich

2tphH HS3/HS5 Preston – Brighton

2tphH HS3/HS5 York – Brighton

= 6tph

18. Strelley Junction – Nottingham HS station – Manvers St. Junction

2tphH Preston – Norwich

2tphH HS3/HS5 Preston – Brighton

2tphH HS3/HS5 York – Brighton

2tphH HS3/HS5 Derby – Portsmouth and Southsea

2tphH	HS3/HS5	Derby – Chechester
2tphH	HS3/HS4	Derby – Paddington
2tphH	HS7	Swansea – Norwich
2tphH	HS7	Birmingham HS – Cleethorpes
2tphH	HS7	Birmingham HS – Skegness
= 18tph		

19. Manvers St. Junction – Edwalton Junction

2tphH	Preston – Norwich
2tphH	HS3/HS5 Preston – Brighton
2tphH	HS3/HS5 York – Brighton
2tphH	HS3/HS5 Derby – Portsmouth and Southsea
2tphH	HS3/HS5 Derby – Chichester
2tphH	HS3/HS4 Derby – Paddington
2tphH	HS7 Swansea – Norwich
2tphR	York – St. Pancras via Melton Mowbray
2tphR	Morecambe – Ely – Norwich / Stansted Airport
= 18tph	

20. Edwalton Junction – Asfordby Junction

2tphH	Preston – Norwich
2tphH	HS3/HS5 Derby – Chichester
2tphH	HS3/HS4 Derby – Paddington
2tphH	HS7 Swansea – Norwich
2tphR	York – St. Pancras via Melton Mowbray
2tphR	Morecambe – Ely – Norwich / Stansted Airport
= 12tph	

21. Asfordby Junction – Wymondham East Junction

2tphH	Preston – Norwich
2tphH	HS7 Swansea – Norwich
= 4tph	

22. Wymondham West Junction – Thurlby Junction

2tphH	Preston – Norwich
2tphH	HS7 Swansea – Norwich
= 4tph	

23. Thurlby Junction – Pellett Hall Junction

2tphH	Preston – Norwich
2tphH	HS7 Swansea – Norwich
2tphH	HS10/ HS5 Hull – Southampton
2tphH	HS10/ HS6 Hull – Norwich
= 8tph	

24. Pellett Hall Junction – Peterborough HS
 2tphH Preston – Norwich
 2tphH HS7 Swansea – Norwich
 2tphH HS10/ HS5 Hull – Southampton
 2tphH HS10/ HS6 Hull – Norwich
 2tphH HS6 Edinburgh via Durham / Newcastle via Hartlepool – St. Pancras E.
 2tphH HS6 Leeds City – St. Pancras East
 = 12tph
25. Peterborough HS – Ely
 2tphH Preston – Norwich
 2tphH HS7 Swansea – Norwich
 2tphH HS10/ HS5 Hull – Southampton
 2tphH HS10/ HS6 Hull – Norwich
 2tphH HS6 Edinburgh via Durham / Newcastle via Hartlepool – St. Pancras E.
 2tphH HS6 Leeds City – St. Pancras East
 = 12tph
26. Guide Bridge HS Junction – Paddock Junction
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH Liverpool – Newcastle via Hartlepool
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 = 8tph
27. Paddock Junction – Gelderd Rd. North Junction
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH Liverpool – Newcastle via Hartlepool
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 2tphH HS7 Plymouth – Newcastle / Middlesborough
 2tphH HS7 Birmingham HS – York
 2tphH HS7/HS5 Brighton – York
 = 14tph
28. Gelderd. North Junction – Leeds HS – Garforth West Junction
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH Liverpool – Newcastle via Hartlepool
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 2tphH HS3/HS5 Tunbridge Wells – Leeds HS – York
 2tphH HS3/HS5 Brighton – York
 2tphH HS7 Plymouth – Newcastle / Middlesborough
 2tphH HS7 Birmingham HS – York
 = 16tph

29. Garforth West – Garforth East Junction
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH HS3/HS5 Tunbridge Wells – Leeds HS – York
 2tphH HS3/HS5 Brighton – York
 2tphH HS7 Plymouth – Newcastle / Middlesborough
 2tphH HS7 Birmingham HS – York
 = 10tph
30. Garforth West Junction – Micklefield Junction
 2tphH Liverpool – Newcastle via Hartlepool
 2tphH Preston – Hull (via Micklefield)
 2tphH Preston – Scarborough
 = 6tph
31. Garforth East Junction – York HS
 2tphH Liverpool – Newcastle / Middlesborough
 2tphH HS3/HS4 Bournemouth West – Newcastle / Middlesborough
 2tphH HS3/HS5 Eastbourne – Glasgow
 2tphH HS3/HS5 Newhaven – Newcastle / Middlesborough
 2tphH HS3/HS5 Tunbridge Wells – Leeds HS – York
 2tphH HS3/HS5 Brighton – York
 2tphH HS7 Plymouth – Newcastle / Middlesborough
 2tphH HS7 Birmingham HS – York
 = 16tph
32. York HS – Poppleton Junction
 2tphH Liverpool – Newcastle
 2tphH Liverpool – Middlesborough
 2tphH HS3/HS4 Bournemouth West – Newcastle
 2tphH HS3/HS4 Bournemouth West – Middlesborough
 2tphH HS3/HS5 Eastbourne – Glasgow
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS3/HS5 Newhaven – Middlesborough
 2tphH HS7 Plymouth – Newcastle
 2tphH HS7 Plymouth – Middlesborough
 = 18tph
 (The Newcastle and Middlesborough portions split at York.)

33. Poppleton Junction – Romanby Junction
 2tphH Liverpool – Newcastle
 2tphH Liverpool – Middlesborough
 2tphH HS3/HS4 Bournemouth West – Newcastle
 2tphH HS3/HS4 Bournemouth West – Middlesborough
 2tphH HS3/HS5 Eastbourne – Glasgow
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS3/HS5 Newhaven – Middlesborough
 2tphH HS6 St. Pancras East – Edinburgh via Durham
 2tphH HS6 St. Pancras East – Newcastle via Hartlepool
 2tphH HS7 Plymouth – Newcastle
 2tphH HS7 Plymouth – Middlesborough
 2tphR York – Edinburgh
 = 24tph
 (The Edinburgh and Newcastle portions of the HS6 service portions split at York ECML.)
34. Romanby Junction – Derwent Hill Junction
 2tphH Liverpool – Newcastle
 2tphH HS3/HS4 Bournemouth West – Newcastle
 2tphH HS3/HS5 Eastbourne – Glasgow
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS7 Plymouth – Newcastle
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 = 10tph
35. Derwent Hill Junction – Paradise Junction
 2tphH Liverpool – Newcastle
 2tphH HS3/HS4 Bournemouth West – Newcastle
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS7 Plymouth – Newcastle
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 = 8tph
36. Paradise Junction – Newcastle
 2tphH Liverpool – Newcastle
 2tphH HS3/HS4 Bournemouth West – Newcastle
 2tphH HS3/HS5 Newhaven – Newcastle
 2tphH HS3 Glasgow - Newcastle
 2tphH HS3 Whitehaven – Carlisle – Newcastle
 2tphH HS7 Plymouth – Newcastle
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 = 12tph