

# HS13/HS14 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).

For my own convenience as much as anything else, the present article elucidates the route loadings corresponding to service plan 5. This is the HS13/HS14 service plan for Mk1A and Mk2; there are differences of infrastructure between Mk1A and Mk2, but the actual services are the same.

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 plan is 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 5*

### HS13 Services:

- 2tphH HS3: [HS5 Eastbourne →] Pancras Cross – York – Darlington Bank Top – Durham Relly Mill – Consett – Hexham – Hawick – Edinburgh Waverley HS – Haymarket HS – Edinburgh Airport – Glasgow Bellgrove – Glasgow St. Enoch
- 2tphH HS3: Newcastle – Hexham – Hawick – Lauder – Edinburgh Waverley HS – Haymarket HS – Edinburgh Airport – Glasgow Bellgrove – Glasgow St. Enoch
- 4tphH Newcraighall HS – Edinburgh Waverley HS – Haymarket HS – Edinburgh Airport – Glasgow Bellgrove – Glasgow Airport – Glasgow Airport Parkway – Erskine Parkway South – Erskine Parkway North – Dalmuir
- 4tphH Glasgow St. Enoch – Glasgow Airport – Glasgow Airport Parkway – Erskine Parkway South – Erskine Parkway North – Dalmuir
- 4tphH Glasgow St. Enoch – Glasgow Airport – Dalry (splits / joins) –:
  - Kilmarnock
  - Ayr

### HS14 Services:

- 2tphH Glasgow St. Enoch – Glasgow Bellgrove – Stirling – Perth – Aberdeen ('fast')
- 2tphH Newcraighall HS – Edinburgh Waverley HS – Haymarket HS – Edinburgh Airport – Stirling – Perth – Aberdeen ('fast')
- 2tphH Glasgow St. Enoch – Glasgow Bellgrove – Stirling – Gleneagles – Perth – Coupar Angus – Forfar – Bridge of Dun – Laurencekirk – Stonehaven – Aberdeen ('stopping')

- 2tphH Newcraighall HS – Edinburgh Waverley HS – Haymarket HS – Edinburgh Airport – Stirling – Gleneagles – Perth – Coupar Angus – Forfar – Bridge of Dun – Laurencekirk – Stonehaven – Aberdeen (‘stopping’)
- 2tphH Glasgow Queen St. – Stirling – Perth – Dundee – Arbroath – Montrose – Laurencekirk – Stonehaven – Aberdeen
- 2tphH Newcraighall HS – Edinburgh Waverley HS – Haymarket HS – Edinburgh Airport – Kirkcaldy – Leuchars Junction – Dundee – Arbroath – Montrose – Laurencekirk – Stonehaven – Aberdeen
- 2tphH Glasgow Queen St. – Stirling – Gleneagles – Perth – Dunkeld & Birnam – Pitlochry – Blair Atholl – Dalwhinnie – Newtonmore – Kingussie – Aviemore – Carrbridge – Inverness
- 2tphH [HS3 Hawick – Lauder –] Edinburgh Waverley HS – Haymarket HS – Edinburgh Airport – Stirling – Gleneagles – Perth – Dunkeld & Birnam – Pitlochry – Blair Atholl – Dalwhinnie – Newtonmore – Kingussie – Aviemore – Carrbridge – Inverness
- 2tphH Newcraighall HS – Edinburgh Waverley HS – Haymarket HS – Edinburgh Airport – Kirkcaldy – Ladybank – Newburgh – Perth

#### HS-Classic Services from Routes Other Than HS3:

- 2tphH HS6 London → York – Darlington – Durham – Newcastle – Berwick – Ed. Waverley
- 1tphH HS2 Birmingham → Carlisle – Lockerbie – Haymarket – Edinburgh Waverley
- 1tphH HS2 Liverpool → Carlisle – Lockerbie – Haymarket – Edinburgh Waverley

#### Regional Metro Services:

- 2tphR York – Thirsk – Northallerton – Darlington – Durham – Chester le Street – Newcastle – Morpeth – Alnmouth – Berwick – Dunbar – Drem – Edinburgh Waverley
- 2tphR Hawick – St. Boswells – Melrose – Tweedbank – Galashiels – Edinburgh Waverley – Haymarket – Edinburgh Airport – Dunfermline Town – Glenrothes with Thornton – Markinch – Ladybank – Collessie – Newburgh – Abernethy – Bridge of Earne – Perth
- 2tphR Hawick – St. Boswells – Melrose – Tweedbank – Galashiels – Stow – Gorebridge – Newtongrange – Eskbank – Shawfair – Newcraighall – Brunstane – Edinburgh Waverley – Haymarket – Edinburgh Airport – Dunfermline Town – Glenrothes with Thornton – Markinch – Ladybank – Springfield – Cupar – Leuchars Junction – Dundee
- 4tphRS Newcraighall – Brunstane – Edinburgh Waverley – Haymarket – South Gyle – Edinburgh Airport – Dalmeny – North Queensferry – Inverkeithing – Rosyth – Dunfermline Town – Dunfermline Queen Margaret – Crossgates – Cowdenbeath – Lochgelly – Cardenden – Glenrothes with Thornton – Kirkcaldy – Kinghorn – Burntisland – Aberdour – Dalgety Bay – Inverkeithing → Edinburgh (Fife Circle, clockwise\*)
- 4tphRS Newcraighall – Brunstane – Edinburgh Waverley – Haymarket – South Gyle – Edinburgh Airport – Dalmeny – North Queensferry – Inverkeithing – Dalgety Bay – Aberdour – Burntisland – Kinghorn – Kirkcaldy – Glenrothes with Thornton – Cardenden – Lochgelly – Cowdenbeath – Crossgates – Dunfermline Queen Margaret – Dunfermline Town – Rosyth – Inverkeithing → Edinburgh (Fife Circle, counter-clockwise\*)
- 2tphRS Newcraighall – Brunstane – Edinburgh Waverley – Haymarket – South Gyle – Edinburgh Airport – Dalmeny – North Queensferry – Inverkeithing – Rosyth – Dunfermline Town (reverse)

- Cairneyhill – Torryburn – Culross – Kincardine – Kilbagie – Clackmannan – Alloa – Cambus – Causewayhead – Stirling
- 2tphRS Newcraighall – Brunstane – Edinburgh Waverley – Haymarket – Edinburgh Park – Linlithgow – Polmont – Falkirk Grahamston – Falkirk Camelon – Larbert – Stirling
- 2tphRS Glasgow Queen St. – Stepps – Gartcosh – Greenfaulds – Cumbernauld – Larbert – Stirling – Bridge of Allan – Dunblane – Gleneagles – Perth – Invergowrie – Dundee
- 2tphR Glasgow Central – Paisley Gilmout St. – Glasgow Airport Parkway – Bishopton – Port Glasgow – Whinhill – Drumfrochar – Branchton – IBM – Inverkip – Wemyss Bay
- 2tphR Glasgow Central – Paisley Gilmout St. – Glasgow Airport Parkway – Bishopton – Port Glasgow – Greenock Central – Greenock West – Port Matilda – Gourock
- 2tphRS Glasgow Central – Cardonald – Hillingdon East – Hillingdon West – Paisley Gilmout St. – Paisley St. James – Glasgow Airport Parkway – Bishopton – Langbank – Woodhall – Port Glasgow – Bogston – Cartsdyke – Greenock Central – Greenock West – Port Matilda – Gourock
- 2tphR Glasgow Central – Paisley Gilmour St. – Dalry – Kilwinning – Ardrossan South Beach – West Kilbride – Fairlie – Largs
- 2tphRS Glasgow Central – Paisley Gilmour St. – Johnstone – Milliken Park – Howwood – Lochwinnoch – Glengarnock – Dalry – Kilwinning – Stevenston – Saltcoats – Ardrossan South Beach – Ardrossan Town – Ardrossan Harbour
- 2tphR Glasgow Central – Paisley Gilmour St. – Dalry – Kilwinning – Irvine – Troon – Prestwick Intl Airport – Prestwick Town – Ayr
- 2tphRS Glasgow Central – Paisley Gilmour St. – Johnstone – Milliken Park – Howwood – Lochwinnoch – Glengarnock – Dalry – Kilwinning – Irvine – Barassie – Troon – Prestwick Intl Airport – Prestwick Town – Newton on Ayr – Ayr

(\* Specifying the Fife Circle services as clockwise / counter-clockwise means that there are 4tph in each direction north of Inverkeithing, and 8tph in each direction between Newcraighall and Inverkeithing. Calling it a circle is rather misleading; actually, it's a noose!)

The Tayside Metro (see the separate article of that name for full details) provides a number of services which are closely interlinked with HS14's services. Specifically:

- 2tphRS Monikie – Wellbank Parkway – Kingennie – Grange Parkway – Barnhill – Broughty Ferry – West Ferry – Craigie and Stannergate – Dundee East – Town Hall – Dundee Tay Bridge (street level) – Esplanade – Wormit West – St. Fort – Leuchars Junction – Guard Bridge – St. Andrews
- 2tphRS Monikie – Wellbank Parkway – Kingennie – Grange Parkway – Barnhill – Broughty Ferry – West Ferry – Craigie and Stannergate – Dundee East – Town Hall – Dundee Tay Bridge (street level) – Esplanade – Wormit West – St. Fort – Leuchars Junction – Darsie – Cupar – Springfield – Ladybank
- 4tphRS Arbroath – Carnoustie – Golf St. – Barry Links – Monifieth – Balmossie – Broughty Ferry – West Ferry – Craigie and Stannergate – Dundee East – Town Hall – Dundee Tay Bridge (street level) – Magdalen Green – Dundee Airport – Ninewells – Invergowrie – Kingoodie Parkway

Service plan 5 overall imposes the following loadings on HS13:

• Newcraighall HS	– Gyle Junction	18tph
• Newcraighall	– Edinburgh Waverley	16tph
• Edinburgh Waverley	– Gyle Junction	14tph
• Gyle Junction	– Kirkliston Junction	32tph
• Kirkliston Junction	– Kinnaird Junction	14tph
• Kinnaird Junction	– Bankhead Junction	8tph
• Bankhead Junction	– Robroyston Junction	16tph
• Robroyston Junction	– Glasgow Queen St.	4tph
• Robroyston Junction	– Saltmarket Junction	12tph
• Saltmarket Junction	– Glasgow St. Enoch	8tph
• Saltmarket Junction	– Clyde Junction	4tph
• Glasgow St. Enoch	– Clyde Junction	8tph
• Clyde Junction	– Glasgow Airport Junction	12tph
• Glasgow Airport Junction	– Dalmuir	8tph
• Glasgow Airport Junction	– Kilmarnock	4tph
• Kilmarnock [Mk2]	– Ayr	4tph

– and the following loadings on HS14:

• Kinnaird Junction [Mk1A]	– Alloa Junction	6tph
• Alloa Junction [Mk1A]	– Bannockburn Junction	10tph
• Bankhead Junction [Mk1A and Mk2]	– Bannockburn Junction	8tph
• Bannockburn Junction [Mk1A]	– Stirling	18tph
• Stirling [Mk1A]	– Dunblane Junction (site of)	16tph
• Kinnaird Junction [Mk2]	– Bannockburn Junction	6tph
• Bannockburn Junction [Mk2]	– Dunblane Junction	14tph
• Dunblane Junction [Mk1A and Mk2]	– Forgandenny Junction	16tph
• Forgandenny Junction [Mk1A]	– Hilton Junction	16tph
• Hilton Junction [Mk1A]	– Perth	20tph
• Forgandenny Junction [Mk2]	– Perth	14tph
• Forgandenny Junction [Mk2]	– Hilton Junction	2tph
• Hilton Junction [Mk2]	– Perth	6tph
• Perth	– Stanley junction	12tph
• Stanley junction	– Craigo Junction	8tph
• Kirkliston Junction	– Inverkeithing	18tph
• Inverkeithing (via Kirkcaldy)	– Thornton South Junction	8tph
• Thornton South Junction	– Thornton North Junction	4tph
• Thornton North Junction	– Ladybank	8tph
• Ladybank	– Leuchars Junction	6tph
• Leuchars Junction	– Dundee Tay Bridge station	8tph
• Perth	– Dundee Tay Bridge station	4tph
• Dundee Tay Bridge station	– Craigo Junction	4tph
• Craigo Junction	– Aberdeen Union station	12tph

Elucidation of the loadings:

1. Newcraighall HS – Kirkliston Junction (HS services)
  - 2tphH Eastbourne – Glasgow
  - 2tphH Newcastle – Glasgow
  - 2tphH Hawick – Inverness
  - [The above services do not stop at Newcraighall HS.]
  - 4tphH Newcraighall HS – Dalmuir
  - 2tphH Newcraighall HS – Aberdeen (fast)
  - 2tphH Newcraighall HS – Aberdeen (stopping)
  - 2tphH Newcraighall HS – Aberdeen via Dundee
  - 2tphH Newcraighall HS – Perth
  - = 18tph
2. Newcraighall (classic) – Edinburgh Waverley (RM/RMS services)
  - 2tphR Hawick – Perth
  - 2tphR Hawick – Dundee
  - 4tphRS Fife Circle, clockwise
  - 4tphRS Fife Circle, counter-clockwise
  - 2tphRS Newcraighall – Stirling via Dunfermline
  - 2tphRS Newcraighall – Stirling via Larbert
  - = 16tph
3. Edinburgh Waverley – Gyle Junction
  - 2tphR Hawick – Perth
  - 2tphR Hawick – Dundee
  - 4tphRS Fife Circle, clockwise
  - 4tphRS Fife Circle, counter-clockwise
  - 2tphRS Newcraighall – Stirling via Dunfermline
  - = 14tph
  - [The Stirling via Larbert service takes the Glasgow lines after Waverley]
4. Gyle Junction – Kirkliston Junction
  - 2tphH Eastbourne – Glasgow
  - 2tphH Newcastle – Glasgow
  - 2tphH Hawick – Inverness
  - 4tphH Newcraighall HS – Dalmuir
  - 2tphH Newcraighall HS – Aberdeen (fast)
  - 2tphH Newcraighall HS – Aberdeen (stopping)
  - 2tphH Newcraighall HS – Aberdeen via Dundee
  - 2tphH Newcraighall HS – Perth
  - 2tphR Hawick – Perth via Dunfermline and Ladybank
  - 2tphR Hawick – Dundee via Dunfermline and Ladybank
  - 4tphRS Fife Circle, clockwise
  - 4tphRS Fife Circle, counter-clockwise
  - 2tphRS Newcraighall – Stirling via Dunfermline
  - = 32tph

[Four tracks are available over this section, with four platform faces in each direction at the airport station, so arranged that HS and RM/RMS services make cross-platform connections with each other.]

5. Kirkliston Junction – Kinnaird Junction
  - 2tphH Eastbourne – Glasgow
  - 2tphH Newcastle – Glasgow
  - 2tphH Hawick – Inverness
  - 4tphH Newcraighall HS – Dalmuir
  - 2tphH Newcraighall HS – Aberdeen (fast)
  - 2tphH Newcraighall HS – Aberdeen (stopping)
  - = 14tph
6. Kinnaird Junction – Bankhead Junction
  - 2tphH Eastbourne – Glasgow
  - 2tphH Newcastle – Glasgow
  - 4tphH Newcraighall HS – Dalmuir
  - = 8tph
7. Bankhead Junction – Robroyston Junction
  - 2tphH Eastbourne – Glasgow
  - 2tphH Newcastle – Glasgow
  - 4tphH Newcraighall HS – Dalmuir
  - 2tphH Aberdeen – Glasgow (fast)
  - 2tphH Aberdeen – Glasgow (stopping)
  - 2tphH Aberdeen – Glasgow via Dundee
  - 2tphH Inverness – Glasgow
  - = 16tph
8. Robroyston Junction – Glasgow Queen St.
  - 2tphH Aberdeen – Glasgow via Dundee
  - 2tphH Inverness – Glasgow
  - = 4tph
9. Robroyston Junction – Saltmarket Junction
  - 2tphH Eastbourne – Glasgow
  - 2tphH Newcastle – Glasgow
  - 4tphH Newcraighall HS – Dalmuir
  - 2tphH Aberdeen – Glasgow (fast)
  - 2tphH Aberdeen – Glasgow (stopping)
  - = 12tph
10. Saltmarket Junction – Glasgow St. Enoch
  - 2tphH Eastbourne – Glasgow
  - 2tphH Newcastle – Glasgow
  - 2tphH Aberdeen – Glasgow (fast)
  - 2tphH Aberdeen – Glasgow (stopping)
  - = 8tph

11. Saltmarket Junction – Clyde Junction  
4tphH Newcraighall HS – Dalmuir  
= 4tph
12. Glasgow St. Enoch – Clyde Junction  
4tphH Glasgow – Dalmuir  
4tphH Glasgow – Kilmarnock – Ayr  
[At Mk1A this service splits at Dalry, and the Ayr portion proceeds via Irvine]  
= 8tph
13. Clyde Junction – Glasgow Airport Junction  
4tphH Glasgow – Dalmuir  
4tphH Glasgow – Kilmarnock – Ayr  
4tphH Newcraighall HS – Dalmuir  
= 12tph
14. Glasgow Airport Junction – Dalmuir  
4tphH Glasgow – Dalmuir  
4tphH Newcraighall HS – Dalmuir  
= 8tph
15. Glasgow Airport Junction – Dalry Junction  
4tphH Glasgow – Kilmarnock – Ayr  
= 4tph
16. Dalry Junction – Kilmarnock  
4tphH Glasgow – Kilmarnock[ – Ayr Mk2 only]  
= 4tph
17. Kilmarnock – Ayr [Mk2 only]  
4tphH Glasgow – Kilmarnock – Ayr  
= 4tph
18. Kinnaird Junction – Alloa Junction [Mk1A]  
2tphH Hawick – Inverness  
2tphH Newcraighall HS – Aberdeen (fast)  
2tphH Newcraighall HS – Aberdeen (stopping)  
= 6tph
19. Alloa Junction – Bannockburn Junction [Mk1A]  
2tphH Hawick – Inverness  
2tphH Newcraighall HS – Aberdeen (fast)  
2tphH Newcraighall HS – Aberdeen (stopping)  
2tphRS Newcraighall (classic) – Stirling via Larbert  
2tphRS Glasgow – Dundee via Larbert  
= 10tph
20. Kinnaird Junction – Bannockburn Junction [Mk2]  
2tphH Hawick – Inverness

2tphH Newcraighall HS – Aberdeen (fast)  
2tphH Newcraighall HS – Aberdeen (stopping)  
= 6tph

21. Bankhead Junction – Bannockburn Junction

2tphH Glasgow – Aberdeen (fast)  
2tphH Glasgow – Aberdeen (stopping)  
2tphH Glasgow – Aberdeen via Dundee  
2tphH Glasgow – Inverness  
= 8tph

22. Bannockburn Junction – Stirling [Mk1A]

2tphH Glasgow – Aberdeen (fast)  
2tphH Newcraighall HS – Aberdeen (fast)  
2tphH Glasgow – Aberdeen (stopping)  
2tphH Newcraighall HS – Aberdeen (stopping)  
2tphH Glasgow – Aberdeen via Dundee  
2tphH Glasgow – Inverness  
2tphH Hawick – Inverness  
2tphRS Newcraighall (classic) – Stirling via Larbert  
2tphRS Glasgow – Dundee  
= 18tph

23. Stirling – Dunblane Junction [Location of at Mk1A. Only actually exists at Mk2]

2tphH Glasgow – Aberdeen (fast)  
2tphH Newcraighall HS – Aberdeen (fast)  
2tphH Glasgow – Aberdeen (stopping)  
2tphH Newcraighall HS – Aberdeen (stopping)  
2tphH Glasgow – Aberdeen via Dundee  
2tphH Glasgow – Inverness  
2tphH Hawick – Inverness  
2tphRS Glasgow – Dundee  
= 16tph

24. Stirling – Dunblane Junction [Mk2]

2tphH Glasgow – Aberdeen (fast)  
2tphH Newcraighall HS – Aberdeen (fast)  
2tphH Glasgow – Aberdeen (stopping)  
2tphH Newcraighall HS – Aberdeen (stopping)  
2tphH Glasgow – Aberdeen via Dundee  
2tphH Glasgow – Inverness  
2tphH Hawick – Inverness  
= 14tph

25. Dunblane Junction – Hilton Junction [Forgandenny Junction at Mk2]

2tphH Glasgow – Aberdeen (fast)  
2tphH Newcraighall HS – Aberdeen (fast)



2tphH Glasgow – Aberdeen (stopping)  
 2tphH Newcraighall HS – Aberdeen (stopping)  
 2tphH Glasgow – Aberdeen via Dundee  
 2tphH Glasgow – Inverness  
 2tphH Hawick – Inverness  
 2tphRS Glasgow – Dundee  
 = 16tph

26. Hilton Junction – Perth [Mk1A]

2tphH Glasgow – Aberdeen (fast)  
 2tphH Newcraighall HS – Aberdeen (fast)  
 2tphH Glasgow – Aberdeen (stopping)  
 2tphH Newcraighall HS – Aberdeen (stopping)  
 2tphH Glasgow – Aberdeen via Dundee  
 2tphH Glasgow – Inverness  
 2tphH Hawick – Inverness  
 2tphH Newcraighall HS – Perth  
 2tphR Hawick – Perth via Ladybank  
 2tphRS Glasgow – Dundee  
 = 20tph

27. Forgandenny Junction – Perth [Mk2]

2tphH Glasgow – Aberdeen (fast)  
 2tphH Newcraighall HS – Aberdeen (fast)  
 2tphH Glasgow – Aberdeen (stopping)  
 2tphH Newcraighall HS – Aberdeen (stopping)  
 2tphH Glasgow – Aberdeen via Dundee  
 2tphH Glasgow – Inverness  
 2tphH Hawick – Inverness  
 = 14tph

28. Forgandenny Junction – Hilton Junction [Mk2]

2tphRS Glasgow – Dundee  
 = 2tph

29. Hilton Junction – Perth [Mk2]

2tphH Newcraighall HS – Perth  
 2tphR Hawick – Perth via Ladybank  
 2tphRS Glasgow – Dundee  
 = 6tph

30. Perth – Stanley Junction

2tphH Glasgow – Aberdeen (fast)  
 2tphH Newcraighall HS – Aberdeen (fast)  
 2tphH Glasgow – Aberdeen (stopping)  
 2tphH Newcraighall HS – Aberdeen (stopping)  
 2tphH Glasgow – Inverness

2tphH Hawick – Inverness  
= 12tph

31. Stanley Junction – Craigo Junction

2tphH Glasgow – Aberdeen (fast)  
2tphH Newcraighall HS – Aberdeen (fast)  
2tphH Glasgow – Aberdeen (stopping)  
2tphH Newcraighall HS – Aberdeen (stopping)  
= 8tph

32. Kirkliston Junction – Humble Junction – Inverkeithing

2tphH Newcraighall HS – Aberdeen via Dundee  
2tphH Newcraighall HS – Perth  
2tphR Hawick – Perth via Dunfermline and Ladybank  
2tphR Hawick – Dundee via Dunfermline and Ladybank  
4tphRS Fife Circle, clockwise  
4tphRS Fife Circle, counter-clockwise  
2tphRS Newcraighall – Stirling via Dunfermline  
= 18tph

33. Inverkeithing – Thornton South Junction via Kirkcaldy

2tphH Newcraighall HS – Aberdeen via Dundee  
2tphH Newcraighall HS – Perth  
4tphRS Fife Circle, counter-clockwise, from Newcraighall (classic)  
= 8tph

34. Thornton South Junction – Thornton North Junction

2tphH Newcraighall HS – Aberdeen via Dundee  
2tphH Newcraighall HS – Perth  
= 4tph

35 Thornton North Junction – Ladybank

2tphH Newcraighall HS – Aberdeen via Dundee  
2tphH Newcraighall HS – Perth  
2tphR Hawick – Perth via Dunfermline and Ladybank  
2tphR Hawick – Dundee via Dunfermline and Ladybank  
= 8tph

36. Ladybank – Leuchars Junction

2tphH Newcraighall HS – Aberdeen via Dundee  
2tphR Hawick – Dundee via Dunfermline and Ladybank  
2tphRS Ladybank – Monikie (Tayside Metri)  
= 6tph

37. Leuchars Junction - Dundee

2tphH Newcraighall HS – Aberdeen via Dundee  
2tphR Hawick – Dundee via Dunfermline and Ladybank  
2tphRS Ladybank – Monikie (Tayside Metri)

2tphRS St. Andrews – Monikie (Tayside Metri)  
= 8tph

38. Perth – Dundee

2tphH Glasgow – Aberdeen via Dundee

2tphRS Glasgow – Dundee

=4tph

39. Dundee – Craigie Junction (this ignores Tayside Metro services between Dundee and Arbroath)

2tphH Glasgow – Aberdeen via Dundee

2tphH Newcraighall HS – Aberdeen via Dundee

= 4tph

40. Craigie Junction – Aberdeen

2tphH Glasgow – Aberdeen (fast)

2tphH Newcraighall HS – Aberdeen (fast)

2tphH Glasgow – Aberdeen (stopping)

2tphH Newcraighall HS – Aberdeen (stopping)

2tphH Glasgow – Aberdeen via Dundee

2tphH Newcraighall HS – Aberdeen via Dundee

= 12tph