OCTOBER 1972

SECTION 2 of SESSION ONE.

GOODS VEHICLES & FREIGHT MARSHALLING.

Summary Notes.

Title '	Reference No.	Page No.
Wagon Stock of the Constituent Companies	1/NGC/1	1
Midland Railway, Wagons Ordered 1893-1922	1/NGC/2	2
The LMS Wagon Renumbering Scheme	1/NGC/3	2
LMS Wagons Ordered 1924 to 1947	1/KM/1	3
ditto	ditto	4
ditto	ditto	5
The Distribution of Stock in 1939	1/DPR/1	6
The Distribution of Company Wagon Stock	1/DPR/2	6
Railway and Privately Owned Wagon Stock	1/DPR/3	7
The Average Freight Train	1/DPR/4	7
The Breakdown of Total Wagon Stocks	1/DPR/5	8
Map of the Crewe to Shrewsbury Line	1/DPR/6	9
Train Services and Facilities,		
Crewe to Shrewsbury 1946	1/DPR/7	10
Summary Notes	1/DPR/8	1.1

All notes compiled from official statistics by Noel Coates, Ken Morgan and Don Rowland.

Wherever possible spaces for notes have been provided on the sheets.

WAGON STOCK OF THE CONSTITUENT COMPANIES.

Company	Total
LNWR (including L&Y)	109 061
Midland Railway	107 617
Caledonian Railway	51 536
G&SWR	19 252
Furness Railway	7 365
North Staffs	6 248
Highland Railway	2 718
Maryport and Carlisle	1 404
Cleator and Workington	248
Stratford on Avon & Midland Jct.	130
Wirral Railway	80
Knott End Railway	52
Total	<u>305 711</u>

Breakdown of Stock.

Company	0pens	Covered	Mineral	Special	Cattle	Rail&Tim	Brakes Others
LNW & LY	68 631	21 007	8 358	1 494	2 882	3 678	2 711 300
Midland	67 277	12 <i>3</i> 84	22 955	491	1 228	1 899	1 383
Caley	14 060	3 296	28 367	115	1 4500		4 248
G&SWR	3 293	1 371	12 222	40	648		1 678
Highland	1 949	188		6	292	209	74
Stratford	89	18			6	8	9
Wirral	72	. 3				2	3

Notes on Table.

The information comes from the Railway Year Book of 1923.

The actual categories of wagons are by no means similarly defined by each railway company. For instance it would be silly to assume that the Caley had no brake vans because there is no figure for that column, for some reason they chose to class them as other.

All other companies had their wagom stock given in total only and there is no breakdown available.

This, and the list above do not include service vehicles.

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Space for notes.

		MIDLAND RAILWAY:	WAGONS	ORDERED	1893 - 192	<u>2</u> .	
1893	5 057	1903	3 105		1913	2	875
94	6 196	04	247	•	14	4	015
95	2 451	OP	3 892		15	2	851
96	<i>3</i> 645	06	1 611		16	2	409
97	8 896	07	2 525		17	1	030
98	1 713	08	1 187		18	2	283
99	8 430	09	3 312		19	1	450
1900	2 677	1910	1 533		1920	6	254
01	5 305	11	3 846		21	2	655
02	2 773	12	3 960		22	2	607
	<u>47 143</u>		<u>25 218</u>		•	28	429

The average number of wagons built per year is :100 790 ÷ 30 = 3 359

1897 was the year in which the largest total of Midland wagons was ordered, whilst the small total of 247 for 1904 is inexplicable as neither surrounding year is a heavy committment.

Ref 1/NGC/3

THE LMS WAGON RENUMBERING SCHEME.

Midland	retained 1 to 129 000
L&Y	130 000 added to existing numbers to 169 999
G&SWR	170 000 added to existing numbers to 189 999
North Staffs	192 000 to 199 999*
LNWR	200 000 added to existing numbers, to 278 999
11	279 000 to 279 999 service vehicles
11	280 000 added to brake van numbers, to 281 999
11	282 000 and upwards, scrvice vehicles
Furness	285 000 to 291 999*
Highland	292 000 to 299 999* ·
Caledonian	300 000 added to existing numbers, to 352 999
tt	353 000 and upwards, goods brakes and service vehicle

Notes.

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^{*} Vehicles in these company groups were not numbered in the same sequence as when owned by the pre-grouping company. It is thought that the vehicles of the other companies were slotted into the sequence 190 000 to 191 999, and were probably not re-numbered in sequence.

LMS WAGONS ORDERED 1924 - 1947.

	~ -	^	~ ".	٠,			~ ~	
Year	Goods Brakes	Open Goods	Covered Goods	Mineral	Sand	Tube .	Long Low Plate	Ballast
1924	181	12 000	600	4 500				
1925	4 5 8	12 400	2 022	3 350		250		
1926	331	5 100	1 313	4 150			•	
1927	300	10 Q00	1 690	2 500			187	
1:928	102	7 000	1 375	4 500				
1929	200	7 650	2 250					
1930	225	5 750*	2 700	2 000			400	
1931	175		1 750					
1932	9+		1 755					
1933	200	100	1 550			100	250	
1934	50	3 900	3 000		100	100		
1935	90	1 700	4 000	2 500		1.00		
1.936	120	4 750	2 500	2 500		500	525	60
1937	160	6 637	250	2 000			250	500
1938	300	2 688	1 000	1 000		150		1 000
1939	1+	2 600	750			150	200	1:75
1940	394	300	2 435	550			100	175
1941	128:		715					600
1942	225	250	3 990		~	100	300	250
1943	225	1 750	3 256					
1944	250	775	2 040	1 500			400	100
1945	191	2 300	1 550	2 000				
1946	150	1 750	500	- 2- 000			100	200
1947	46	2.700		2 600		30 <u>0</u>		100
mi _ 4- = =	A == 3.4	04 400	40.004		ecoloristano e		sicili-colorogramenta	
Total	4 511	94 100	42 991	37 700	100	1 750	2 712	3 160
							Park Company of the C	

⁺ Plough Vans

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^{*} Total number of high goods built 1923-30 is 61 900

Ref 1/KM/1 Cont.

Year	Sleeper	Loco Coal	Single Bolster	Double Bolster	Deal	Banana ,	Gunpowder	Ventilated Meat
1924							10	
1925				162		200	40	
1926				3 8		3 50		
1927				501		250		3 00
1928				205	150			
1929				,206		100	25	
1930				500		100		150
1931								50
1932								
1933					50		20	
1934								
1935								
1936	20	550	500	600			20	
1937	14	440		50	50		25	
1938	75		500	150				
1939	50		250				20	
1940		254	162					
1941	100							
1942				200				
1943							20	
1944	100						20	
1945		150		200				
1946	50	150		150		100		
1947	50	. 50		50				
Totals	 459	1 594	1 412	3 012	250	1 100	190	500
	Non-path-path-path-p		terreterosperaturaturas.		emakananananan	nanturita minusinum	Grund state (gradual)	-

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Ref 1/KM/1 Conc

Year	Refrig.	Beer	Cattle	Tanks	Hoppers	Bogie Bolsters	Annual Total
1924	100		670		200		18 311
1925	50		908		50		19 890
1926	250		433	2	-		11 967
1927	50		784	3			16 565
1928			750	5	45		14 132
1929	200	100	295	9	430	×	13 465
1930	1.00		· 545	12	100		12 582
1931			150				2 125
1932			75		108		1 947
1933			525		10		2 805
1934			50		3 65		7 565
1935			100		10		8 500
1936					910	75	13 630
1937					175		10 551
1938				1	500		7 364,
1939				6			4 202
1940				4	10		4 384
1941							1 543
1942							5 315
1943							5 251
1944				1			5 186
1945							6 391
1946							5 150
1947				2			5 898
Totals	750	100	5 285	 45	2 893	75	204 719
	paratica phone	temperature.	action of the second	1.2 ********		1. J	

The information on these pages was compiled from the LMS Lot Book. Some lots were shown as having been built over two years and in these cases the lot has been divided between the years concerned in the above list.

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THE DISTRIBUTION OF STOCK IN 1939.

If it is assumed that one wants a layout with stock in Froportion to the prototype and then decides to have 10 locomotives, one should therefore have the following:-

	•	<u>Ac</u>	<u>tual</u>	<u>Layout</u>
Locomotives		7	497	1.0
Coaching Stock	Passenger	17	347	23
Coaching Stock	Non-Passenger	6	248	8
Wagons	•	287	598	384

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Ref 1/DPR/2

THE DISTRIBUTION OF COMPANY WAGON STOCK.

Even on a purely LMS based layout there will be wagons from all the other companies. If we assume that our 384 wagons are distributed in proportion to the stocks of the various companies, again as at 1939, the following can be deduced:

	<u>Actual</u>	<u>Percentage</u>	Layout
GWR	83 028	12.5	48
INER	256 159	38. 6	148
LMSR	287 598	43.3	166
SR	33 813	. 5.1	20
Minor Lines	3 461	0.5	2
Totals.	664 059	100	384

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RAILWAY AND PRIVATELY OWNED WAGON STOCK. .

The notes on the distribution of Company wagon stock gave no account of the privately owned vehicles. These must be considered and the following is found:-

	Actual	Layout
Railway Owned Vehicles	664 059	384
Privately Owned Vehicles - in pool	583 789	337*
Privately Owned Vehicles - non pool	21 310	12*
Totals	1 269 158	733

*This assumes that 43.3% would be found on the LMS, see Ref. 1/DPR/2 Percentage column.

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Ref 1/DPR/4

THE AVERAGE FREIGHT TRAIN.

The average freight train consists of a locomotive, brake van and various wagons. Thus from Ref 1/DPR/4 The Breakdown of Total Wagon Stocks:-

The number of wagons 733, less the number of break vans 8 gives 725. Therefore the number of wagons per train is $\frac{725}{8}$ equal to 90.62 wagons plus the brake van.

However, official statistics give the following:-

The average LMS Freight Train in 1938 had

Number of loaded wagons 22.98

Number of empty wagons 10.70

33,68

Therefore even if all the brake vans are in traffic, which is most unlikely, we shall have $8 \times (91.62 - 33.68) = 456$ out of our 733 wagons just standing in sidings.

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THE BREAKDOWN OF TOTAL WAGON STOCKS.

The 733 wagons on the layout can be broken down into different types as follows:-

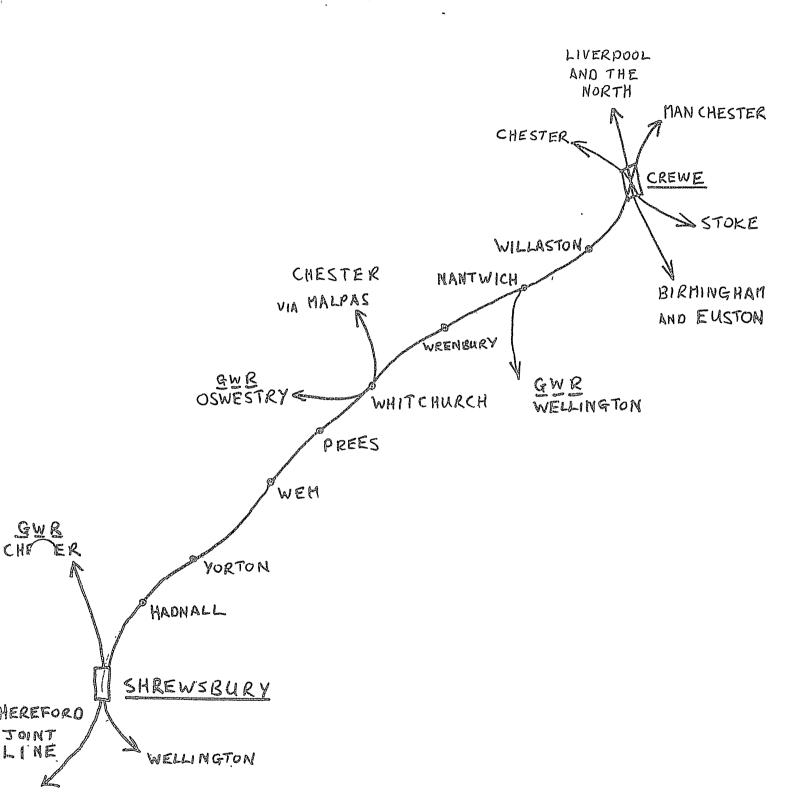
1 Privately Owned.

a In Government Pool	I 8 Tons 10 Tons 12 & 13 Tons 14 & 16 Tons 15 Tons 20 Tons	16 158 156 - 2 - 2 - 337	337 12.
2 Railway Owned .			
Open Goods Wagons	under 8 Tons 8 Tons and under 10T 10 Tons & under 12T 12 Tons Over 12T & under 20T 20Tons and over	16 52 124 2	
Covered Goods-	under 8 Tons 8 Tons and under 10T 10Tons & under 12T 12Tons More than 12 Tons	199 = 9 18 42 = 69	199
	under 8 Tons 8 Tons & under 10T 10Tons & under 12T 12 Tons more than 12 Tons	- 2: 6 67 9	. 84
Special wagons - ord Special wagons - bog Cattle Trucks Rail & Timber - ord Rail & Timber - Bog Brake Vans	gie limary gie		4 10 8 2 8
(There should also l	be 19 service vehicles) Page 8.		733

Ref 1/DPR/6

MAP OF THE CREWE-SHREWSBURY LINE.

This map should be read in conjunction with reference 1/DPR/7.



DETAILS OF TRAIN SERVICES AND FACILITIES: CREWE TO SHREWSBURY 1946.

Codes for boxes in table below:-

- A Number of Express Passenger trains handled²
- B Number of Stopping Passenger trains handled²
- C Length of Passenger Platform Faces 4
- D Number of Through Goods trains handled²
- E Number of Pick-up Goods trains handled²
- F Wagon Capacity³

Station	Λ	В	a	D	E	F
Crewe	18 1	27 1	260	76 ¹	1 1	5 176
Willaston	_	19	12	-	1	45
Nantwich	_	27	20		1	165
Wrenbury	_	16	12	-	1	83 ⁶
Whitchurch	7	31	40	3	3	354_
Prees	-	15	12		1	36 7
Wem	1	15	18		1	110
Yorton	-	13	12		1	23
Hadnall		13_	12 ·		1	115
Shrewsbury	185	16 ⁵	95	40 5	₁ 5	1 879

Notes:-

- 1 Shrewsbury (or Wellington) lines only
- 2 Basic Weekday Service
- 3 Additional sidings installed at Crewe, Prees Heath and Harlescott during World War II have not been taken into account
- 4 Approximate Coach Lengths
- 5 Crewe line only
- 6 Plus 10 at Poole's Siding
- 7 Plus 82 at Prees Heath
- 8 Excluding GWR (Cambrian) trains

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SUMMARY.

- 1. If you want to model the LMS correctly you need lots of wagons.
- 2. Your coaches will be LMS but your wagons will belong to all 4 grouping companies and private owners.
- 3. The proportion of wagons you roughly need is:8 LMS; 7 LNE; 2 GWR; 1 Southern
- 4. Most of the wagons will be open goods and mineral.
- 5. Many of them just sit in sidings.
- 6. So you will need lots of sidings.
- .7. Even when they are in trains they often get shunted.
- 8. So you will need loops and law-bies.
- 9. 34 wagons is the average LMS Freight Train.
- 10. The present day freight train is not a LMS one.
- 11. Get building wagons.

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