

COMPANY SURGEONS

COMPANI SOLG	20119
*Dr. Abbott Skinner, Chf. Med. Office	orSt. Paul, Minn.
*Dr. Charles T. Eginton, Asst. to Chf.	Med. Officer
	St Paul Minn
Dr. Darrell E. Westover	St. Paul, Minn.
Dr. John F. Alden	St. Paul. Minn.
*Dr. Ernest R. Anderson	Minneapolis, Minn.
*Dr. Victor E. Ekblad Dr. Milton Finn	Superior, Wis.
Dr. Milton Finn	Superior, Wis.
Dr. Fred Johnson	Superior, W15.
Dr R. C. Stock	Superior, Wis.
Dr. Raymond J. Spurzem Dr. Leroy J. Larson *Dr. Einar W. Johnson	Anoka, Minn.
Dr. Leroy J. Larson	Bagley, Minn.
*Dr. Einar W. Johnson	Bemidji, Minn.
Dr. T. P. Groschupf	Bemidji, Minn.
Dr. Wm. T. Nygren Dr. W. W. Will	Braham, Minn.
Dr. W. W. Will	Bertha, Minn.
Dr. G. E. Larson	
Dr. G. W. Schossow	Erskine, Minn.
Dr. George A. Sather	
Dr. N. F. Musachio	Foley, Minn.
Dr. C. E. Norberg	Cloquet, Minn.
Dr. Gordon C. MacRae	Duluth, Minn.
*Dr. C. H. Coombs	
Dr. R. W. Brockway *Dr. John B. Evensta	Grand Rapids, Minn.
Dr. John B. Evensta	Grand Rapids, Minn.
*Dr. B. S. Adams	Hibbing, Minn.
Dr. Clarence Jacobson Dr. John J. Muller Dr. R. L. Christie	Hibbing, Minn.
Dr. John J. Muller	Hibbing, Minn.
Dr. R. L. Christie	Long Prairie, Minn.
Dr. Paul J. Keith	
Dr. C. S. Bossert	Mora, Minn.
Dr. E. G. Hubin	Sandstone, Minn.
*Dr. H. W. Goehrs	St. Cloud, Minn.
Dr. G. H. Goehrs	St. Cloud, Minn.
Dr. J. F. DuBois	
Dr. Julian F. DuBois, Jr.	
*Dr. John C. Grant	
Dr. E. N. Peterson	Virginia, Minn.
Dr. J. Arnold Malmstrom Dr. Luther F. Davis	Virginia, Minn.
TUT. Luther F. Dayls	
Dr. O. F. Ringle	Walker, Minn.

^{*}Designates also Examining Surgeon.

OPHTHALMIC SURGEONS

(Eye Doctors)

Dr. Edward P. Burch	St. Paul. Minn.
Dr. Charles E. Stanford	Minneapolis, Minn.
Dr. Malcolm A. McCannel	
Dr. John E. Power	
Dr. T. J. Doyle	
Dr. Roger T. Thompson	Superior, Wis.
Dr. W. T. Wenner	St. Cloud. Minn.

E. G. STACK, Chief Dispatcher.

C. W. HAMMER, Chief Dispatcher.

R. R. McENARY, Trainmaster.

W. R. RICHTER, Trainmaster.

W. T. SLOAN, Trainmaster.

T. G. HOOKER, Trainmaster.

Scanned from the Dean Ogle Collection

GREAT NORTHERN RAILWAY COMPANY

MESABI DIVISION TIME TABLE 75

EFFECTIVE 12:01 A. M.

CENTRAL TIME

Sunday, June 19, 1960

E. F. OVIATT, Superintendent.
R. N. WHITMAN, General Manager.
A.W. CAMPBELL, General Superintendent Transportation.

Printed in U.S.A.

PIRST CLASS 24 20 Daily Daily 11.50Am A 6.45Pm 11.40Am L 6.39Pm 11.34 s 6.30 AND SUPERIOR TERMINALS TIME 1.24Am A 6.13Pm 1.22 6.11	TIME TABLE
Dolly 1.50Am A 6.45Pm 1.40Am L 6.39Pm Derior Terminals Time 1.34 s 6.30 AND SUPERIOR TERMINALS 1.24Am A 6.13Pm	TABLE TIME TABLE
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AND SUPERIOR TERMINALS	l. 1
1.24Am ▲ 6.13Pm	. 1
1.24Am ▲ 6.13Pm	l. 1
	A 1
1.22 6.11	12.12Am
	12.08
1.19 6.08	12.02 _{Am}
1.13	11.54
1.06 5.56	11.44
1.00	
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0.45	11.16
0.38	11.08
	10.56
0.22 5.24	10.46
	10.31
0.10 5.14	10.30
0.02 5.07	10.17
	10.16
1 1	10.08
1 1	9.59 9.51
	9.46
1 1 1	9.40
	9.32
9.20	9.24
	9.14
1 1	9.04
1 1	8.55 L 8.45pm
8.10Am L 3.30Pm	
	3.27
	10.22 s 5.24

SEE ADDITIONAL SPECIAL INSTRUCTIONS PAGES 8 THROUGH 11.

WESTWARD SEC					ECOND SUBDIVISION					EASTWARD 3						
,	Ca Capa	r icity			SECOND	CLASS			Time Table No. 75		ا و		SECOND	CLASS		:
lequn?	1	_				163 Soo Line	from		Effective June 19, 1960		Ph Ca	SIGNS	162 Soo Line			
Station Number	Sidings	Other Tracks				Tues., Thur., Sat.	Distance from Dufuth	_	STATIONS	-	Telegraph Calls		Mon., Wed., Fri.			
J125	1						13.43		BOYLSTON	i		Р				
Y251	99	2					19.21		5.78 DEWEY			P				
Y249							23.09	TRACK	STATE LINE TOWER		5	DNPI				
		·····					26.93			ABS		IP I			·····	
V224		10					33.01	DOUBLE	6.08 CARLTON			DNPI				
Y236 Y22 9	85	10 239					38.97	۵	5.96 CLOQUET	1	KN	DPX				
Y213	138	81					55,45		BROOKSTON.		BN	JDNPWXY				
Y205	185	3					63.31		7.86 PAUPORES			P				
Y195	193	64					73.27	<u> </u>	FLOODWOOD		6	DP				
Y1 89	185						79.37	ļ		ဦ		P				
Y178	195	22					89.83	ļ	10.46 SWAN RIVER.★ 8.95		WA	JDNP				
Y168	196						98. 7 8		PHILBIN		••••	P				
Y161	96	175					106.30				GU	JYIDNPX	•••••			
Y159	92	240					109.34		GRAND RAPIDS	ABS	GR	DNXP PX				
Y157	48	30	<u></u>				113.04	∺	1.19	¥						
Y156	123	9		ļ 			114.23		COHASSET		•••••	P		· · · · · · · · · · · · · · · · · · ·		
Y145	135	96					123.60		7.10	•	RI	DNPX				
Y138	70	16					130.70		BALL CLUB		BA	P DP				
Y125	69	22					143.60 151.15		7.55 SCHLEY			P				
Y118	123	4					131.13	╢	2.06	<u> </u>						
						L 8.43Am	153.21		9.48	8	•••••	JPV	A 3.30Pm 3.05			
Y106	Yard	681	ļ	ļ		9.05	162.69 172.34		CASS LAKE★) 9.65 ROSBY			JRDNKWXPYO P	2.38			
Y 96 Y 90	70	10				9.24 A 9.35Am	177.96	"	5.62 BEMIDJI		ВМ	JBDNPWXVI	L 2.24Pm			
Y 84	70	10				A 7.33AIII	184.11		6.15 wilton		N	DP				
						-		-	6,13 \$QLWAY	_						ieti
Y 78	••••	26					190.24 196.44		6.20 SHEVLIN	••	SO YN	DP DP				
Y 72 Y 65	69 75	27 76					203.14	1	6.70 BAGLEY		BY	DP				
Y 58	101	27		[210.46	ł	7.32 EBRO		RO	P				
Y 52	70	23					216.48		LENGBY		G	DP				
Y 45	70	109					223.50		7.02 FOSSTON		FO	DP				
Y 37	70	35		[231.09	1	7.59 Mcintosh		МО	DP				
Y 31	72	37					237.14		6.05 ERSKINE	••	RS	DPI				
Y 24	71	34					243.79		6.65 MENTOR6.74	••	MT	DP		ļ		
Y 17	•						250.53		TILDEN JCT	••	ON	DPJV				
Y 12	70	29					255.17		4,64 BENOIT			P				
A298	Yard	359					267.62	١.	CROOKSTON YARD	••		ворух				
	1	RAI	NS BETW	EEN CR	OOKST	ON YARE	AND	CI	ROOKSTON ARE GOVERN	NE	D B	DAKOT	DIVISI	ON TIME	TABLE	
			1		1		269.60		1.98 CROOKSTON		Ī	NBRDKX	1			
		===				.52 28.55		= -	Time Over Subdivision	_			1.06			
		<u> </u>		t	We		ins are	81	Average Speed Per Hour sperior to eastward trains of	ft	he sar	ne class.	1 22,0			
	Westward trains are superior to eastward trains of the same class. SEE ADDITIONAL SPECIAL INSTRUCTIONS PAGES 5 THROUGH 11.															

	E	Cap	ar acity	SECOND CLASS		Time Table	_		SECOND CLASS			ar acity			Time Table No. 75		
	lumbe			523	from	No. 75	h Calls	SIGNS	524	nmbe		<u> </u>	from ct.			h Colls	SIGNS
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	<u>ب</u>	155	01		Δŏ		12	<u> </u>			20	101	مُق	1		12	
15 5.10 13.45	•••••		••••			PARK RAPIDS JCT. 10.24		JPX		YC8	 -				0.29		1
Color State Stat	K-10					LITTLE SAUK				YC7	45	·····			1.74	·· ····	1
Sample S			i I			4.74					•••	***			0.23		
Second S	K-10	- 37	- 63	0.10	10.56		NE	<u> </u>	11.15	100					0.92		i
Second S	K-24				26.44	BROWERVILLE	VI	D	1		39				2.53		
Martin M	K-32	1				4.69	1		1	YD61			6.14		ST. CLAIR JCT		. JPXV
Column C			i !	8.20 524		7.51	i		9.25 523	YD60			6.61				. JPXV
PX		1				4.03	l	-		V2 50	V	150	010	ſ	2,58		niv
Column C	N-48				40.03		nw	- B	8.50					ğ	0.71	1	
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Ref 30 116 12.15m 91.17 PARK RAPOLS J D 6.50 V 22 Verd 1327 15.41 NELLY LAKE X D NO NO NO NO NO NO NO	K-70	23				SEBEKA 8.73		l						[]	0.58		1
Social 12.15 Soci	K-79		27	10.55	79.17	MENAHGA	MH	D	6.50		. .				3.10		
Cor Cor	K-91	30	116	12.15 p m	91.17	PARK RAPIDS	נ	D	6.20	1				(4.02		
N D Signs N D Sign	K-98	ļ	15	12.35	97.74	DORSET		 	5. 3 0			1	l		0.84	1	
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K-124 15 1.55 124.19 LEECH LAKE. 4.05 79 86 3.5.99 MOLMAN JCT. JP K-131 12 2.10 131.04 WILKINSON 3.50 70 86 3.5.99 NO. 75 3.50 K-105 Verd 681 A. 2.30pm 140.38 C.ASS LAKE. ★. CS SEVEN C.CS					120.92	.N. P. RY. CROSSING.	 	U		YD 82		5	32.48		MARBLE &	RB	DPX
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Variable Variable	K-131	 	12	2.10	131.04	WILKINSON	 -			YD 87			37.01		TACONITE JCT	NI	J₽∨
10.00	Y-106	Yard	681	A 2.30pm	140.38		cs	WXPYO	L 3.30Am	YD 88	••••	56	38.84		BOVEY	BY	DPX
WESTWARD FIFTH SUBDIVISION EASTWARD SECOND CLASS Copacity SECOND CLASS SECOND CLASS SIGNS										YD 91	-	300	41.60				. PXY
Car Capacity SECOND CLASS 305 5										Y 161	96	176	46.84		GUNN	GU	JPYIDNX
CLASS Copacity CLASS Signs Class Signs	WE	STW			FTH	SUBDIVISION	1	EAST	WARD	WES	TW	AR	D ,	SIXT	H SUBDIVISION I	CAST	`WARD
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S	lumbe	<u></u>	-	305	from			SIGNS	306	Zemb				e from	Effective June 19, 1960		SIGNS
S	affon N	Bug	1 SE		River	June 19, 1960	legrap			tation		sguipi	racks)istanc irookst	STATIONS	elegra	
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23 9.25 10.24 PRINCETON CT DX 10.40 10.4				- VERRI			~PL			וועו		- 1	- 1		14.07 FERMOY		P
H-11 23 9.25 10.24 ZIMMERMAN I.00 s 12.30 10.45 19.16 PRINCETON CT DX s 12.30 10.44 5 39.88 10.44 10.44 10.40 10.44 10.40 10.44 10.44 10.40 10.44 10.44 10.40 10.44 10				8.54Am	0.74			ıv	1.25pm	YA 5			1		5.84 CASCO		P
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H-24 4 10.20 23.21LONG'S SIDING 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard 1327 50.32 KELLY LAKEX KY OJWYX 12.10pm YB 25 Yard YB 25	11-11		16		19.16	PRINCETON	ст	DX		ı	- 1	- 1	1		ONEGA	- 1	
H-29 20 s 10.38 28.58PEASE EA D s 11.55 Westward trains are superior to eastward trains of the same class on	H-20		4	10.20	23.21	LONG'S SIDING				YB 25	Ye	ard	1327	50.32	KELLY LAKE*.	KY	OJWYX
3,98				- 1030	28.58	PEASE	EA	D		West	tware	l trai	ns are	super	ior to eastward trains of the	same	class on
	H-20	<u> </u>	20	0.50													

WESTWARD SEVENTH SUBDIVISION EASTWARD									
2	Cap		FIRST	CLASS		Time Table No. 75		FIRST	CLASS
Station Numbers	<u> </u>		11	3	Distance from Brook Park Jct.	700	SIGNS	12	4
Staff	Sidings	Other Tracks	Daily	Doily	Disto	STATIONS		Daily	Daily
						BROOK PARK JCT.	JP		
J54		8			5.06	QUAMBA	P		
J48	 	59	<i>.</i>		11.39	MORA	DP		
J41	89	31			18.49		DP		
J34		12	<u></u>		25.37	BÖCK	P		
J28	90	71			30.59	5,22 MILACA 0,64	BRDPX		
 					31.23	MILACA JCT	PJX	<i></i>	
J25		33			33.88		P		
J18		30			39.60		P		
J17		11			42.37	RONNEBY	P	<u> </u>	
J14	89	38			44.68	2.31 FOLEY 4,30	DP		
J10		33			48.98	PARENT	P		
G63		182	L 6.00Pm	L 9.42Am	58,15	EAST ST. CLOUD.	DNPIX	1	A 4.13Pm
75	Yard	1501	A 6.08Pm	A 9.50Am	59.69	ST. CLOUD*	BXYO	LII.23Am	L 4.05pm
			0.08 11.5	0.08 11.5		Time Over Subdivision Average Speed Per Hour		0.08 11.5	0.08 11.5

Westward trains are superior to eastward trains of the same class.

SEE ADDITIONAL SPECIAL INSTRUCTIONS PAGES 5 THROUGH 11.

SPECIAL INSTRUCTIONS ALL SUBDIVISIONS

1. SPEED RESTRICTIONS GENERAL.

The following speed limits apply to trains and engines operating under the conditions outlined, unless rules or conditions require a further reduction.

50 MPH-Diesel engines light or with caboose only.

35 MPH—Trains or engines on main routes, actuating the points of spring switches;

Trains or engines thru No. 20 turnouts at following locations.

Saunders	Crossover
Boylston	Crossover
Dedham	Siding
Askov	
Hinckley Tower	Siding
Brook Park	Siding
Brook Park Jct	Jct,
Grasston	Siding
Coon Creek Jct.	Jct.
Coon Creek	Crossover
Brookston	Crossover

Brookston	Jct.
BrookstonEnd I	Obl. Trk.
Paupores	Siding
Floodwood	Siding
Island	Siding
Swan River	Jct.
Swan River	Siding
Philbin	Siding
Baden	Siding
Fermoy	
Onega	

30 MPH—On Main lines, when handling following equipment in trains, not in actual service but on own wheels, derricks, cranes, pile drivers, Jordan spreaders, shovels, wedge plows, scale test car, also ore cars series 80000 thru 94250 and air dump cars X-2000 thru X-2096, X-7000 thru X-7049 when such cars are loaded with ore or gravel.

25 MPH-Trains handling logs;

Trains or engines moving in facing point direction at spring switches without facing point lock;
Trains or engines thru No. 15 turnouts at following

locations:

Cent. Ave. TowerCrossover	BoylstonJct.
SaundersJct.	Bridge 29Gantlet
Br. 1.3End Dbl. Trk.	GunnJct,

20 MPH—Trains handling the following equipment on Branch Lines or on 6 degree or sharper curves of Main Lines, scale test car, ore cars series 80000 thru 94250, air dump cars X-2000 thru X-2096, X-7000 thru X-7049 when such cars are loaded with ore or gravel.

15 MPH—Trains handling the following equipment on Branch Lines or on 6 degree or sharper curves of Main Lines, derricks, cranes, pile drivers, Jordan spreaders, shovels and wedge plows.

Trains or engines moving thru interlockings against the current of traffic on double track;

Trains or engines thru all other turnouts, except equilateral turnouts, and those shown previously in this item.

1(a). Rule 240-W of the Consolidated Code of Operating Rules is modified to permit handling Great Northern cars 60276 thru 60279, 61500 thru 61524 and 61000 thru 61009 in passenger trains at passenger train speeds.

2. MOVEMENT OF ENGINES DEAD IN TRAINS.

Engine 2350 must be handled on rear of train.

Single unit diesel engines moving dead in freight trains are to be handled not less than five (5) cars, or more than fifteen (15) cars from road engine.

Additional units are to be separated by not less than five (5) cars.

Multiple unit groups not exceeding four (4) units, all equipped with alignment control couplers moving dead in freight trains, are to be handled not less than five (5) cars from road engine. Additional groups or single units are to be separated by not less than five (5) cars.

Following speed restrictions must be observed when towing engines dead in trains:

MAXIMUM SPEED	ENGINE NUMBER
50 MPH	1 thru 12, 14, 15, 16, 24 thru 28,
	75 thru 170.
79 MPH	260, 261, 266 thru 270, 275, 280,
	281, 350 thru 365, 500 thru 512,
	679, 680.
65 MPH	
	above.

- 3. Except at points where it is necessary to classify trains, open cars loaded with poles, piling, lumber, timber, pipe, or other lading which might shift, should be placed as close as possible to the head end of train, but not next to engine, caboose, occupied outfit car or passenger car. Loaded trailer-on-flat cars are not included in this category. In double track territory, trains handling such cars must use extreme care to avoid slack running in or out when passing or being passed by other trains. In single track territory, trains handling such cars must be at stop when on siding or other track to meet or be passed by other trains, except when have more cars than siding will hold, it is permissible for such trains to pull by each other at restricted speed. Loaded dump cars should not be handled on double track after dark, but if necessary to do so, close watch must be maintained by members of the crew, and if a car dumps its load, train must be stopped at once and protection provided as prescribed by the rules.
- 4. Brakemen with less than one year of experience should not be used as flagmen except in emergency, and then Superintendent will be notified by wire.
- 5. When operating snow machines in non-block signal territory no train should be permitted to follow closer than a station apart, when that cannot be done they will be blocked not less than thirty minutes apart.

After severe blizzard or dirt storm, employes on first train over road must exercise care to avoid accident caused by striking drift without first having drifts faced with hand shovels, cutting in far enough to get beyond the hard snow and giving a perpendicular wall to strike against instead of slope or wedge-like shape. When operating snow dozer, conductor in charge will ride in the dozer.

On snow and dirt dozers every precaution must be taken to see that cage, flangers and wings clear all obstacles when in service and are properly secured when in through trains, and dozers properly turned. Hand screws must be tightened to raise flanger on dozers as high as possible before making a back-up movement, and must not be released until the dozing work is actually to start. Hand screws holding the cage on dozers must be tightened or chains otherwise fastened except when dozer has air in cylinders and is attended by an employe.

- 6. Due to limited overhead clearance at tunnels and structures, employes are warned to keep off top of cars of extreme height and width when handled in trains and yards, except in emergency. In absence of previous advice on such cars, wire proper officer for instructions.
- Placarded loaded tank cars handled in through freight or mixed trains shall not be nearer than 6th car from engine, occupied caboose or passenger car.

Cars placarded "Explosives", "Flammable", "Corrosive Liquids", or "Poison Gas" handled in through freight trains, local and mixed trains, shall not be nearer than 16th car from engine, occupied caboose or passenger car.

When length of train will not permit handling of cars as prescribed above—ANY PLACARDED CAR, loaded with above commodities—shall be placed near middle of train, but not nearer than 2nd car from engine, occupied caboose or passenger car.

When switching such cars in terminal yards they must be separated from engine by at least one non-placarded car.

When placarded cars described above are handled in freight trains made up in "blocks" or classifications, placarded car or cars shall be placed near middle of the "block" or classification, but not nearer than 6th car from engine, occupied caboose or passenger car.

When such placarded cars are placed in trains they must not be placed next to each other, next to refrigerators equipped with gas-burning heaters, stoves or lanterns, or next to loaded flat cars, or gondola cars containing lading higher than ends of car that is liable to shift.

Carload express shipments of explosives, sealed and placarded, may be handled on passenger trains; LCL shipments may be made in so-called peddler car with messenger in charge when such car is assigned to the handling of express and baggage exclusively.

Terminal or pick-up points enroute must furnish conductor and engineer Form 250 showing consecutively location in train of all cars placarded "Explosives". At points other than terminals where crews change, notice will be transferred from crew to crew.

Employes will be guided by further instructions governing handling of loaded tank cars, Explosives, Flammables, Corrosive Liquids, and Poison Gas found in I.C.C. Regulations and Consolidated Code Rules 727 and 811.

- 8. Trains departing from stations, either from siding or main track in trailing point movement actuating points of spring switches, a member of crew must observe indication of governing signal in opposite direction after rear end of train has passed through switch to ascertain if switch points return to normal position. If this signal indicates Stop and no immediate train movement or other cause is evident, report the fact to Superintendent from first available point of communication. During and immediately following snow storms or violent wind storms, spring switches must be operated by hand and relined in normal position before heading out through switch in trailing point movement, actuating switch points, to insure switch is in proper operating condition.
- Facing point locks on hand operated switches are indicated by a six-inch yellow stripe painted on target staff. Be positive locking device is restored to normal position after using. A

running switch must not be made through this type switch.

- 10. Before picking up cars of peeled pulpwood from industry at any station, conductor must examine lading; if lading is not protected with woven wire to prevent sliding out on sides, or, when wire is not available, with boards and stakes, then car must not be moved from industry. The fact must be promptly reported by wire to the Superintendent.
- 11. Whistle Signals for Routes at Junctions and Interlockings:
 Whistles

 Routes
 Whistles

 Main Track
 2 short, 1 long

 Diverging route
 2 long

 Siding
 4 short

 Against current of traffic
 1 long, 1 short
- 12. The Consolidated Code of Operating Rules, Edition of 1959, in addition to the following instructions will govern Great Northern employes while operating on Minnesota Transfer Railway Co. and St. Paul Union Depot Company trackage:
 - (a) All trackage of the Minnesota Transfer Railway Company is defined as a system of tracks within yard limits over which movements must be made at restricted speed and are not authorized by time table or train order, but subject to prescribed signals and rules, or special instructions.

The limits of the St. Paul Union Depot Co. property extend from connection with the Northern Pacific Ry. and Great Northern Ry. tracks at Third Street and connection with the CMStP&P-CB&Q R.R. tracks opposite depot roundhouse on the east, to connection with the CGW Ry. and CMStP&P R.R. tracks at Robert Street on the west.

- (b) The time table of the St. Paul Union Depot Company is for information only. Employes of railroads using the tracks of this Company will be governed by current time table of their respective companies only as to arriving and departing time of trains.
- (c) Where in the rules of the Consolidated Code reference is made to trains, such rules will also apply to yard movements and engines.
- (d) Under Rule 11, the use of torpedoes is prohibited.
- (e) Under Rule 15, burning fusees must not be used except in case of emergency and then only when held in hand and must be extinguished before leaving.

THE FOLLOWING RULES APPLY ONLY ON THE ST. PAUL UNION DEPOT COMPANY:

- (f) There is no superiority of trains within the limits of St. Paul Union Depot Company property.
- (g) Within the limits of the St. Paul Union Depot Company property, trains and engines must move at restricted speed and must not exceed ten (10) miles per hour through crossovers, turnouts and puzzle switches.

The entrance to, and all movements on this property, will be made only on authority of hand signals from switch tenders. No train or engine may foul any track or puzzle switch without authority of hand signals from switch tenders in control of such movements, except that short interior switching movements may be made through crossovers connecting shed tracks when authorized by train director.

Any lead or track may be used for the make-up of trains on authority of train director. The movement of trains should be given preference.

(h) When indicated by the ringing of the bell, flashing of headlight, hand or light signal that a train or engine is ready to move, the switch tender in charge of the shed track on which the movement is standing will handle as follows: at west end of station the switch tender will control the movement by hand or light signal; at the east end of station the switch tender will inform the train director, who will route the movement by instructions over the public address system. Switch tenders will be governed by these instructions, relaying such instructions by hand or light signal to the next switch tender in the direction of the movement. Each must receive an acknowledgment before signalling the movement. Signals must not be acknowledged or acted upon unless the signal corresponds with instructions from the train director and is definitely understood.

- (i) When backing, the back-up air brake valve on passenger trains must be operated by the conductor, except in the movement of empty equipment it may be operated by a competent trainman or yardman. When practicable, conductors must see that trainmen are stationed so hand or light signals may be used in case of any emergency. When backing a train, the engine brake valve must be in running position. An application of the brakes must be made with back-up air brake valve before starting and it must be known that the brakes are in operative condition. Movement must not be started until the proper signal is given. A running test must be made with the back-up air brake valve before the train has moved 300 feet. If the running test is not made within 300 feet the engineer must stop the train and ascertain cause. The speed of train must not exceed eight (8) miles per hour; and train must be under such control that it can be stopped short of train or obstruction, and short of bumping post on stub tracks.
- (j) Headlights must be dimmed while on shed tracks.

FIRST SUBDIVISION

(Main Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between	Passenger	Freight
Central Ave. Tower and Boylston	75 MPH	50 MPH
Boylston and Foxboro	60 MPH	40 MPH
Foxboro and Coon Creek Jct.	79 MPH	50 MPH

2. SPEED RESTRICTIONS.

3. TRAIN REGISTER EXCEPTIONS.

All trains register by ticket at Central Ave. Tower, Saunders, and Coon Creek Jct.

Eastward freight trains will throw off register check at Saunders giving all information called for in train register except arrival and tie up.

4. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).

- (a) At Boylston, Brook Park Jct., trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive.
- (b) Mesabi Division clearance received by first class trains and passenger extras at Minneapolis, and by other trains at Minneapolis Jct., will clear train at Coon Creek Jct. when train order signal indicates proceed.

5. RESTRICTED CLEARANCES.

Superior, bents under Fifteenth St. viaduct will not clear man on side of car or engine.

- Second class and extra trains will use double track with the current of traffic without train orders or clearance between 25th Street, Superior, and Central Avenue Tower where they will receive train orders or clearance.
- Hinckley, automatic block signal 72.1 governing westward trains, is located on left hand side of main track about 500 feet west of depot.

8. SPEED TEST BOARDS.

Engineers shall test speed of their trains passing following point as compared with Speed Table:

Westward, between MP 76 and MP 77 approximately 4 miles west of Hinckley Tower.

Eastward, between MP 77 and MP 76 approximately 8 miles east of Brook Park.

9. CROSSOVERS ON DOUBLE TRACK.

Facing Point Saunders, east crossover Boylston Trailing Point Central Ave. Saunders, at tower. Boylston

10. SPRING SWITCHES WITH FACING POINT LOCK.

Dedhams Nickersons		tonsiding
Askovs		
Normal posit	tion is for main	track.

11. SPRING SWITCHES WITHOUT FACING POINT LOCK.

Superior, east switch of Eastward and Westward incoming tracks.

Normal position is for incoming tracks and all other round-house lead switches, when not in use, must be left lined for roundhouse lead.

Elevator "X", east and west of car unloader on unloading track

Normal position of switch west of unloader is for unloading
track.

Normal position of switch east of unloader is for runaround track

12. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward trains on Signal 15.6 between Boylston and Dedham. we Westward trains on Signal 61.1 between Askov and Sandstone.

18. MANUAL INTERLOCKINGS.

14. MANUAL INTERLOCKINGS WITH DUAL CONTROL SWITCHES.

Sandstoneeast and west yard switch

15. AUTOMATIC INTERLOCKINGS.

16. Great Northern Transfers going to Great Northern Rices Point Yard will use C&NW track from bridge switch to switch in C&NW main track leading to new connection to Great Northern Rices Point Yard. Authority to use C&NW track will be given by clear signal at Minnesota Draw.

For movement from Great Northern Rices Point Yard to Superior, authority to use C&NW track must be obtained from Minnesota Draw by telephone—from phone located in booth just north of Birch Street between Great Northern and C&NW tracks—before leaving Rices Point Yard.

SECOND SUBDIVISION

(Main Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between		Passenger	Freight
Boylston and Paupores	***************************************	50 MPH	40 MPH
Paupores and Crookston	Yard	59 MPH	45 MPH

2. SPEED RESTRICTIONS.

Between Home Signals of Interlockings at: 20 MPH Bridge 29, westward. Bemidji.

Erskine.

Crookston Yard.

Cass Lake, on all tracks over footwalk crossing located just west of mainline switch to roundhouse 8 MPH Whistle signal must be sounded as prescribed by rule. Crossing must be cut immediately. When this crossing is blocked by coupling up train, trainmen must remain at the crossing to prevent pedestrians from crawling through the cars.

... TRAIN REGISTER EXCEPTIONS.

Trains originating and terminating at Crookston Yard will register at Crookston Depot.

4. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).

At Boylston, Brookston and Gunn, trains for which these points are initial stations may proceed on authority of clearance under which such trains arrive.

All trains must obtain clearance Form A at Cass Lake.

Mesabi Division clearance received at Crookston will clear train at Crookston Yard.

At Soo Jct., Soo Line Trains may proceed to Cass Lake without obtaining clearance Form A.

5. SPEED TEST BOARDS.

Engineers shall test speed of their trains passing following point as compared with Speed Table:

Westward, between MP 86 and MP 87 approximately 41/2 miles

Eastward, between MP 87 and MP 86 approximately 2 miles east of Wawina.

Eastward, between MP 86 and MP 87 approximately 2 miles east of Wilton.

Westward, between MP 87 and MP 86 approximately 3 miles west of Bemidji.

6. Cloquet, derails located near east end storage tracks Nos. 1 and 2 are not provided with derail signs.

Cloquet, when setting out cars on either end of No. 1 track be sure cars are shoved down far enough to clear N. P. Ry. cross-

Cloquet, cars left on G.N. tracks must not be closer than 60 ft. each way from 10th Street crossing east of depot.

- 7. Grand Rapids, when setting out cars, eastward freight trains will stop and leave train west of west switch; westward trains will stop east of the first public crossing.
- 8. Lengby, Till Avenue Crossing, just west of depot:
 McIntosh, Cleveland Avenue Crossing, 200 ft. east of depot: Industry tracks do not include automatic road crossing protection and all train and engine movements over these crossings on industry tracks must be flagged by trainman on the ground.

9. International Refinery, Alford, while switching, do not handle cars over drip pans with brakes set as sparks from brakes create a fire hazard.

Account close clearance on old spur, do not put cars beyond 500 ft. from east derail.

Cabooses with fires in stoves not permitted on any of the plant tracks and crews working in the vicinity will refrain from smoking.

Tail hose located in telephone booth must be used on end of cuts shoved to Old No. 1 and Old No. 2 tracks with air coupled into it so that trainmen taking position on rear car of cut being shoved can control the movement over crossing immediately ahead of the unloading rack, as well as being able to stop cut of cars short of end of these two spur tracks.

10. CROSSOVERS ON DOUBLE TRACK.

Facing Point Trailing Point State Line, west crossover State Line, east crossover Carlton, east crossover Alford Cloquet, west crossover Carlton, west crossover Brookston, east crossover Cloquet, east crossover

11. SPRING SWITCHES WITH FACING POINT LOCK.

Cass Lake, east vard switch.

Normal position is for main track.

12. SPRING SWITCHES WITHOUT FACING POINT LOCK.

Cass Lake, west crossover switch to roundhouse lead incoming roundhouse track outgoing roundhouse track

Normal position is for tracks named.

13. DRAGGING EQUIPMENT DETECTOR INDICATOR.

Eastward trains, on signal 30.2 approximately one mile west of Bridge 29.

Westward trains on Signal 28.1 approximately 1 mile east of Bridge 29.

14. MANUAL INTERLOCKINGS.

State Line Tower	N. P.	Ry.	crossing
Carlton		Ry.	crossing
Erskine	MStP&SSM.	RŘ.	crossing

15. MANUAL INTERLOCKINGS WITH DUAL CONTROL SWITCHES.

Gunnjunction with 4th Subdivision

16. AUTOMATIC INTERLOCKINGS.

Bridge 29 _____gantlet Bridge 29:

Release for westward route on westward track is located in release box at eastward home signal.

Release for eastward route on eastward track is located in release box at westward home signal.

Cranks for hand operation of smashboards are attached by chains to the mechanism.

17. CTC—SOO JCT. TO CASS LAKE.

Telephones for communication with the control operator are located at the east end of CTC section and at the spring switch, east end of Cass Lake Yard, 1000 feet west of west end of CTC section. Westward Soo Line trains will call the operator at Cass Lake on phone for authority to enter G.N. main line. The following will govern in case of failure of communications: Soo Line crew will unlock switch and attempt to line for their movement. If switch will line and signal clears, this will be their authority to leave Soo Jct., and proceed to Cass Lake.

THIRD SUBDIVISION

(Park Rapids Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

2. SPEED RESTRICTIONS.

Between Home Signals of Interlockings at: 20 MPH
Park Rapids Jct.
Wadena.

8. TRAIN REGISTER EXCEPTIONS.

All Third Subdivision trains will register at Sauk Centre.

4. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B).

Mesabi Division clearance received at Sauk Centre will clear train at Park Rapids Jct.

Cass Lake, normal position south wye switch is for east leg of wye.

6. AUTOMATIC INTERLOCKINGS.

FOURTH SUBDIVISION

(Gunn-Dormer Jct. Line)

1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.

Between	Passenger	Freight
Gunn and Emmert		
Emmert and Dormer Jct.	. 35 MPH	30 MPH

2. SPEED RESTRICTIONS.

- 3. Between Calumet and Oil Spur, located 1.47 miles west of Bovey, main track will be used jointly by G.N. and DM&IR. Rys. and authority for train movements is controlled by G.N. Ry. and G.N. rules and Special Instructions will govern.
- St. Paul Mine Spur, Third Avenue, Keewatin, trains will not exceed a speed of 12 MPH through the approach circuits of the signal system covering crossing signals for Highway No. 169.
- 5. Harrison Mine Spur, Nashwauk, trains will not exceed a speed of 12 MPH northbound into the mine or 6 MPH southbound out of the mine through the approach circuits of the signal system covering crossing signals for Highway No. 169 crossing.
- 6. Telephone in service at Buckeye, Canisteo and Danube Mines switch. Crews coming from Buckeye, Canisteo and Danube Mines will communicate with the dispatcher and know that way is clear on the main track before proceeding with train down the descending grade on both legs of the wye.

- 7. Block signal located at Mesabi Chief Mine spur normally displays indication, Rule 240(B) and governs movements from spur to main track; after lining switch, if no conflicting movement is evident on main track, movement may be made in accordance with signal indication after complying with Rule 513.
- Trains and engines will run with the current of traffic between Kelly Lake and Emmert Tower without train orders or clearance, and must keep to the left unless otherwise provided.
- 9. Between Emmert Tower and DM&IR. Jct. east of Scranton, G. N. double track will be used jointly by DM&IR. trains. G. N. rules and special instructions will govern.
- 10. Between Wilpen Jct. and St. Clair Jct., and between Buhl and Dormer Jct., DM&IR. trains will use G.N. main track jointly and be governed by G.N. rules and special instructions. Normal position of switches at Wilpen Jct., St. Clair Jct., and Dormer Jct., is for G.N. 4th Subdivision.
- 11. Between St. Clair Jct. and Chisholm Jct., main track will be used jointly by G. N. and DM&IR. Rys. and authority for train movements is controlled by DM&IR. Ry. and DM&IR rules will govern. Eastward G. N. trains will secure clearance and orders from Operator at Emmert who must obtain authority from DM&IR. before issuing.

Westward G. N. trains will secure clearance and orders from G. N. Operator at Chisholm who must obtain authority from DM&IR. before issuing.

- 12. Train and engine movements from main line on new Hull Crusher Spur over Kelly Lake road crossing must be protected by a member of the crew due to restricted view approaching this crossing.
- 13. Susquehanna Shaft, necessary to shove all empties under the head frame, which will not clear a man on top or side of ore car. Crews must stop before shoving under the head frame and brakemen will walk by the shaft to a point where they can give signals in shoving empties onto the tail tracks.

 When placing empties for shaft loading fill the north tail

When placing empties for shaft loading, fill the north tail track through the crossover first, as an engine will not go over this crossover. Then fill the south tail track. When placing empties for screener loading, fill the south tail track first, then the north tail track as an engine cannot move through the crossover into the south screener tail track.

- 14. Boeing crude ore unloading pocket, located five (5) feet east of No. 1 tail track switch, Boeing Mine, open between rails and on north side of track. Use caution when working in vicinity of this pocket and walk on south side of track.
- 15. Signal protection in service at Danube Mine Spur switch and crossover from Balkan Mining Company track to Danube Mine Tracks. Movements over this crossing will be governed by dwarf color-light signals, displaying indication Figure 6 of Rule 240-A or Figure 4 of Rule 240-H except eastward color-light signal for Balkan Mining Company will display Figure 3 of Rule 240-A or Figure 2 of Rule 240-H, all of the Consolidated Code. Normal position of switches is for Balkan Mining Company and for G. N. Ry. track from Danube Mine to washing plant. Signals will clear automatically for Balkan Mining Company and for G. N. Ry. from Danube Mine to washing plant. To obtain signal to crossover the Balkan Mining Company track, G. N. Ry. trainmen should make sure there is no approaching conflicting movement, then line all three switches in the route to clear signal before proceeding. After crossover movement has been made, all three switches must be restored to normal position for Balkan Mining Company track and G. N. Ry. washing plant track.

10		
16.	CROSSOVERS ON DOUBLE TRACK. Facing Point Hull Crusher Trailing Point Mahoning	2. SPEED RESTRICTIONS. Between Home Signals of Interlocking at Elk River 20 MPH
	Ruby Jct. Agnew Scranton Hibbing, east crossover Hibbing, west crossover	 CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B). At Milaca Jct., trains for which this point is initial station may proceed on authority of clearance under which such trains arrive.
	North Mitchell	4. SEMI-AUTOMATIC INTERLOCKINGS. Elk River, 0.74 miles west of
17.	SPRING SWITCHES WITH FACING POINT LOCK. Nashwauk, west north storage track switch. west south storage track switch. Calumet, west new yard switch.	23.02, 31.12 22.00 11.300 02 2.32.33.33.33.33.33.33.33.33.33.33.33.33
	Canisteo, west new yard switch. Normal position is for main track.	SIXTH SUBDIVISION (Casco Line)
18.	SPRING SWITCHES WITHOUT FACING POINT LOCK. Kelly Lake, west switch transfer cinder pit track, Normal position is for mallet cinder pit track.	1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS. Between Passenger Freight Brookston and Kelly Lake 45 MPH 45 MPH
	roundhouse wye tracks. Normal position east switch is for mallet cinder pit track, south switch is for east leg of wye.	2. AUTOMATIC INTERLOCKINGS. Onega, 5.95 miles west ofD. M. & I. R. Ry. crossing
327	west switch is for west leg of wye. Kelly Lake, west wye switch, Normal position is for 4th subdivision.	 DRAGGING EQUIPMENT DETECTOR INDICATOR. Eastward Trains, on iron mast approximately 6400 feet east of Signal 62.2 about 2.5 miles west of Brookston.
19.	MANUAL INTERLOCKINGS. Hibbing, 0.58 miles west ofScranton Emmert TowerD. M. & I. R. Ry. crossing	
	MANUAL INTERLOCKINGS WITH DUAL CONTROL	SEVENTH SUBDIVISION
20.	SWITCHES.	(Milaca Line) 1. MAXIMUM PERMISSIBLE SPEED FOR TRAINS.
	Hibbing, 0.29 miles west of	Between Passenger Freight Brook Park Jct. and East St. Cloud
	SEMI-AUTOMATIC INTERLOCKINGS. Calumet, 0.60 miles east of	2. SPEED RESTRICTIONS. 20 MPH Bridge 46.3, Mora
22.	AT VIRGINIA. G. N. Ry. trains to and from Virginia operate via D. M. & I. R. Ry. tracks between Emmert and Virginia.	3. CLEARANCE PROVISIONS AND EXCEPTIONS RULE 83(B). (a) At Brook Park Jct., trains for which this point is initial station may proceed on authority of clearance under which
	SPEED RESTRICTIONS. (a) Between Home Signals of Interlockings at:	such trains arrive. (b) Trains originating at East St. Cloud may proceed without a clearance.
	(b) Highway No. 53 crossing, 6th Avenue West, leading to Columbia Mine.	4. At St. Cloud, eastward freight trains must know before leaving there that route is clear at N. P. Ry. crossing, East St. Cloud.
	Trains must not exceed a speed of 10 MPH through the approach circuits of this crossing. (c) Trains and engines must stop before passing over crossing U. S. Highway No. 53 leading to depot, and a member of crew	5. MANUAL INTERLOCKINGS. East St. Cloud
	on ground at the crossing will protect movement.	WATCH INSPECTORS
23.	AUTOMATIC INTERLOCKINGS. Virginia, 0.47 miles west of	Yano Bros., 1121 Tower AvenueSuperior, Wis.
	Virginia, 0.47 miles west of	Marcus Co., 728 Tower AvenueSuperior, Wis. O. H. Arosin Co., 414 Robert StreetSt. Paul, Minn. Oscar P. Gustafson Co., 410 Nicollet AvenueMinneapolis, Minn. Pomerleau & Son, 227 East Hennepin AvenueMinneapolis, Minn.
	FIFTH SUBDIVISION	Lindman's Jewelry, Elk's BuildingBemidji, Minn. Paul E. TeskeHibbing, Minn.
	(Princeton Line)	Geary Jewelry CoHibbing, Minn.
1		Randall's Jewelry & Gift StoreGrand Rapids, Minn.
	Between Freight Elk River and Milaca Jct20 MPH	Weber Jewelry & Music Co., 714 St. Germain StreetSt. Cloud, Minn.

Business Tracks not shown as stations on Time Table 11							
Name	Location		Switch Opens			pacity	
	2.25 miles east of Coon Creek Jct	17	W B	Burwell	0.90 miles east of Tilden Jet 7.06 miles west of Benoit 0.58 miles west of Sebeka 0.40 miles west of Long Prairie 1.61 miles west of Long Prairie 1.68 miles west of Long Prairie	85	E & W
Lindsay Pit. Flint Pit. Mirbat. Hartley's Spur. Wawina. Cohasset Mill & Lumber Co. Minn. Power and Light Spur. Chippewa Wood Processing Spur. Webster Lumber Co. Farris. Airport Spur.	Alford	70 120 12 3 11 9 106 16 17 15	E & W	Fourth Subdivision Coal Spur. Service Station Inc. Spur. Oil Track. Douglas Shop Spur. Waccotah Storage Track. Keewatin Saw Mill Spur. Mid-Range Builders Supply. Minn. Power & Light Spur. Ryan and Gillis Spur. Oil Spur. Seventh Subdivision R. E. A. Oil Spur.	2.47 miles east of Buhl 0.90 miles east of Hibbing 1.42 miles east of Hibbing 2.18 miles east of Emmert 3.67 miles west of Virginia 1.92 miles west of Kelly Lake. 0.15 miles east of Nashwauk. 1.09 miles east of Nashwauk. 0.93 miles west of Kevin 1.19 miles east of Canisteo 0.5 miles east of Milaca 1.0 miles east of Mora	3 4 18 9 25 14 7 15 29 85	E & W E & W E & W E & W W W W W

EEWEE

WEWEWWWEEEEW

W E

E E & W

E W

mine Spurs					
Name	Location	Switch Opens			
Stevenson, Lamberton, Mahoning Concentrate, Warren	0.53 miles east of Kelly Lake	w			
Mahoning, Smith, N. Uno, Mahon- ing Grp IV, So. Agnew, Carmi Hull Crusher.	0.72 miles east of Kelly Lake 1.80 miles east of Kelly Lake	W			
Morton	1.98 miles east of Kelly Lake 2.22 miles east of Kelly Lake	W E W			
Stranton, Alworth	2.42 miles west of North Mitchell 0.03 miles west of North Mitchell	W E E W			
Dunwoodv	0.81 miles east of North Mitchell 0.99 miles east of Emmert 0.74 miles west of Chisholm	₩			
ElbernJudson. Michael	2.87 miles west of Buhl	w			
Orant	1.22 miles west of Buhl	W E E E			
Wanless	0.96 miles east of Buhl	E			
Elliott Siding	1.18 miles east of Dormer Jet 2.64 miles west of Virginia	E&W E			
Columbia	0.83 miles west of Virginia 0.47 miles west of Virginia 2.57 miles west of Kelly Lake	E W E			

Bennett-Russell, Carls.......2.57 miles west of Kelly Lake.....

Arcturas......0.25 miles east of Holman Jet.....

Holman..... Taconite Jet.....

SPEED TABLE

Time	Per Mile	Miles	Time	Per Mile	Miles
Min.	Sec.	Per Heur	Min.	Sec.	Per Hour
1 1 1 1 1 1 1 1	46 47 449 50 51 52 54 55 56 57 58 59 0 12 23 4 56 7 8 9	78.8 76.6 75.0 78.5 72.0 70.6 69.2 67.9 66.7 65.5 64.8 62.1 61.0 60.0 59.0 59.1 57.1 56.8 55.4 54.5 55.4 54.5 55.7	111111111111111111111111111111111111111	12 14 16 16 18 20 22 24 26 28 30 88 86 89 42 45 50 55 10 20 80 40 80 80 80 80 80 80 80 80 80 80 80 80 80	50.0 48.6 47.4 45.0 48.9 41.9 40.0 88.7 87.5 86.8 82.7 81.8 82.7 81.8 82.7 25.7 24.5 22.0 17.1 15.0 12.0 8.7 6.7 6.7

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