New York Central Railroad Company

RIVER DIVISION

Time-Table No. 67
FOR EMPLOYES ONLY

## EFFECTIVE

12:01 A.M. Eastern Standard Time Sunday, April 11, 1943

## COMPANY SURGEONS

G. Burdick, M.D., Acting Chief Sur
140 East 54th St., N. Y. City.


SPECIAL INSTRUCTIONS
Special Instructions referred to by letter or number relate to
Rules for the Government of the Operating Department with
corresponding letter or number. a1. Otherr iratlloads.
b3. LAWS AND REGULATIONS.
Safety Appliance Laws.
Cars becoming defective enroute, when loaded with live stock
or perishable freight, may be hauled by chain instead of or perishable freight, may be hauled by chain instead of
coupler to next repair point and when so hauled at the rear
of caboose, must be chained in addition to being coupled, unless the air brakes are in service.
Other defective by chains in revenue Other defective carss must not be hauled by chains in revenue
trains, or in association with cars commercially used, beyond
the firss side track. Cars must not be placed forward of 15 cars from caboose when
so carded. So far as possible, inspectors must boply thest so arded. So far as possible, inspectors must apply these
cards to cars requiring such movement prior to trains being
made up in the yard. cards to cars requirin.
made up in the yard.
Hours of Service Law.
When a train or engine crew has been on duty 14 hours, the
conductor must send report to the Superintendent by wire.
Handhing Explosives and Dangerous Articles.
Bureau of Explosives Pamphlets 20 F and 20 G , efiective
January 7, 1941, govern.
Rules aty Be Followed by Employes in Handling Company
Gasoline to Prevent Possible Explosion from Static Electric Current, effective January 1, 1926, govern.
Except as provided by proper regulations, the handling of Except as provided by proper regulations, the handling of
gasoline in any car of a passenger train is probibited. gasoline in any car of a passenger train is probibited.
In cases of derailments or other corcumstances involving tank
cars loaded with inflammable liquids, where it is absolutely
 necessary to use oil lamps or open trame lights, they must
be kept tat as high an elevation as possible to avoid ocontat
with vapors shich naturaly seek the ground level, and
where where possible, these lights should be kept on that side o
the leaking or wrecked tank acr from which the wind is
blowing so that the wind will tenid to drive the vaipor blowing, so that the wind will tend to drive the vapor
away from these lights. Orders of Commistons.
The Public Service Commission, State of New York and
Public Utilities Cormmission, State of New Jersey, ghall have power, through their members, or responsible enginee
or inspectors, duly authorized by them, to enter in and or inspectors, duiy authorized by them, to enter in and
upon and to inspect the property equipment, builings,
plants, factories, power-houses and offices of the railo
pad, plants, factories, power-houses and offices of the railood
including the right tor such inspection purposes io ride
upon any passenger or freight engine or train while in upon any passenger or freight engine or trains while in
uervice on presentation of proper transportation.

1. standard time

Eastera Standard Time is in use
8. standard clocks.

Weehawken.


Cornwall....
Newburgh. Kingaton... Selkirk Yard.


Albany,
Phoenioi
Arkvill
Arkvilla...
Oneonta...
5. Stations-additional Glenford.-ADD.....
Old Shandaken. Old Shandaken.........
c. LievTNERS AND SIC
$\ddagger$ Stop to discharge passengers.
$\times$ Stop Saturday to


B-1 Will not carry bagazaze.
C Stop regularly to receive pass
E Stop on signal to load express.
M Stops at Little Ferry for Railroad mail.
H Stops May 31, July 5 S. Sept. 6 ...v. 2 , Nov. 25 and Dec. 25.

Will use track 2 from Bergenfield.
$\mathbf{m}$ will use track 3 , eastward, from Little Ferry.
Wiime s. sownack 3 Cortward, from Litantle Ferry Stret is for Saturday only.

+ Will not operate to or from Cortlandt Street May 31,
+ Wiil not operate to or from Corrlandt threet May 31,
July 5 , Sept. 6, Nov 2, Nov. 25 and Dec. 25. J Will not operate from or to Cortlandt Street on Saturday.
K Will not operate from or to Cortlandt Street on Sunday.
$\nabla$ Will stop on signal to discharge passengers from stations P-1 West of Haverstraw.
P-1 Will not carry passengers.
P-2 WWill not carry revenue passenge
P-3 Will s.
P-3 Wisl stop on rivenue passengers.
passengers from that stations west of West Haverstraw.
P- 4 Wassengers from stations on signat, east of Hest Herstraw, to discharge rev-
enue passengers from Heverstraw, and stations west.
P-5 Will stop on signal betwen Litle Ferry and West Point,
both indusive to reecive or discharge N Y O S W. Ry,
poassengers.
P-6 Will not carry passengers west of Ravena
P-6 Will not carry passengers west of Ravena.
NR-1 Will not run May 31, July 5, Sept. 6, Nov. 2, Nov. 25 and
Dec. 25 .
T-1 Will terminate at West Haverstraw, Saturday.

14. engine wirstle gignals.
o-oo Must be sounded to notify signalman that train or engine is stopped and will not proceed until proper
indication has been received in accordanee with
Rule 615. Rule 615.

## 19. MARKIRSS

Walkivivaly Rrach.
A red flag by day and a red light by night will be diaplayed
to indicate the rear of the train. Rule 19 modified accord* to indic
ingly.
21a. omission or white signals.
The digplay of white eignais will bo omitted by extra trains
on two or more tracks, also on Wallkill Valley Branch.
83. thain begisters.

Albany...
$\qquad$

Catskull Mountain Branch.
Kingston.................S.S. K.
Kingston.
Arkville.
Oneonta.
3. cluaring of trains.

Matu Mine.
On two or more tracks, trains will be cleared at initial etations On two or more tracks, trains will be cleared at initial etations
by seignal indication
Trains will not leave the following stations without Clearance
Form A: A. Alskill, All first class trains and passenger extras
Cats
 west for Albany Branch during hours office is
Albany branch
Selkrk Jct., Trains Nos. 307, 301, 305 and extra
trains westward, except passenger extras trains westward, except passenger extras.
Kenwood Jet., extra traiins eastward, except passenger
extras.
Albany, $i r s t$ elsss and passenger extras, eastward.
Albany, first class and pa
Wallilit Valley Branch.
Kingston, all trains, eastward.
Montgomery, all trains, westward.
Catsikll Mountain Branch.
Kinggton, all trains, weestward.
Arkville, all trains, eastward, originating
Oneonta, all trains, eastward.
3. yand hmuys

Nationsl Junsey Junetlon Rallroad.
Weehawken, inclusive
Main Milne.
Weehawken and North Bergen, inclusive, traeks No. 1.
No. 2. No. 4 . No. 2, No. 4.
Signal Station
SE and Signal Station FY, inclusive, track No. 3.
$\begin{aligned} & \text { Tappan and Orangeburg, inclusive. Kingston. } \\ & \text { Corawall. } \\ & \text { Newburgh. }\end{aligned}$ Selkirk Junction. $\begin{gathered}\text { Albany Branch. }\end{gathered}$ Wingston. Wallill Valley Branch. Catskul Mountaln Branch.
$\begin{aligned} & \text { Kingston Point and Kington, inclusive. } \\ & \text { Grand Gorge } \\ & \text { Phonicia } \\ & \text { Grand Hotel Station. } \\ & \text { Oneonta. }\end{aligned}$ Phoenicia.
Grand Hotel Station. $\quad \begin{aligned} & \text { Grand Gorge. } \\ & \text { Arkville. }\end{aligned}$
Oneonta.
Passenger trains must be given full protection at all times.
Westward first class Onaing will a

D-97. WORHE BXTRAS.
On two or more tracks, conductors of work extras must
advise Superintendent by wire beiore leaving initial station specif ying working limits, and must not proceed beyond such limits without permisesion from superintendent. When
work is completed for tho day and train clear of maina trase,
conductors must so report.
98. RALLROAD CROSSINGS AT GRade.

98. Drawibrtiges.

Loteation.
Little Ferry.
Engines mi
 emergency.
10s. Puiblic crossings at grade. approach track oircuit of a highway flashing light on the susing the continuous operation of the signal, a member of the crew must, when practicable, be gtataioned at the
crossing to facilitate highway traffe, advising such traffio whem it is saio to cross. in service at Old Hook Road, east of Harrington Park. The gate arma are normslly down
when flaghing When cars are left standing on dircuit controlling this signsl, a member of the train crow muat be stationed at
the cerosing to rasese gates to permit highway traffic to
 raise gates, push button marked "TO RAASE" with
track number oceupied located in sivith box at roosing.
To lower gates or restore them to normal oporation, To lower gates or restore them to normal operation,
push wuton marked "TO CLOSE wiot track number.
ocoupied. Door of switch box must be cloved and looked occupied. Doo
before leaving.
Trains meeting, passing, or using the siding at the following

stations will approach crossings shown below propared to | station |
| :---: |
| stop: |

$$
\begin{aligned}
& \text { Tappan Middle ....... } \begin{array}{l}
\text { Main Line. } \\
\text { Tro crosings enst of etation. } \\
\text { Masonic erosesing, west of atation }
\end{array} \\
& \text { Congers Middlo....... } \begin{array}{l}
\text { Crossing west on Valley Contage. } \\
\text { Crossing east of Congers station }
\end{array} \\
& \begin{array}{l}
\text { West Haverstraw........Crossing west of gitition. } \\
\text { Jones Point Midde....Crosign east of station. } \\
\text { West Athens Middle.....Crossing west of station. }
\end{array}
\end{aligned}
$$

Wemple...............Crossing west of atation.
New Paltz.............Creamery Crossi

Gewrdiner.
Warlden.
Crossing wrest of
Crossing eation.
enst of station.

Catsidll Mountaln Branch.
 crossings:
New Jersey Junction Rauluroad.
Hoboken....R. B. Davis Co. elding, acro
Congers...... Maln Mine. Rod Rockland Lake siding, switoh Lake Road, Rook
ing movements. Walkwll Valley Branch.
New Paltz.... Creamery, \&witching movemen
Gardiner.... Main St.,
ontgomery. Ward St., all trains.
Catskiki Mountalu Branch.
Upper Hasbrouck Avenue.
Kingston...$\left\{\begin{array}{l}\text { Upper Hasbro. } \\ \text { Prtace Street. } \\ \text { Grand Street. }\end{array}\right.$
Trains must stop before crossing:
$\left.\begin{array}{c}\text { Malim Line. } \\ \text { Newburgh... Renwick Stret. (5.30 P.M. to } \\ \text { when ears are pushed ahead of engine. }\end{array}\right]$.
Kingstor

Wallill Valley Branch.
Kingston.... Rosendale Road Crosing, all traing, exeept Robendale . . . Mountanin Road Highway, at station, westGardineen...Minard, Street, freight trains.
Montgomery. Ward Streat, .Ward Street, all trains (not less than 25 feet
or more than 75 feet distant). Cateldy Mountaln Branch.
Grand Gorge. Croesing just west of station.
105. BLDings

TWO OR MORE TRACKBs
Capaelty, based on \&4-foot car

| Main Line. | West | East ward. | $\begin{aligned} & \text { Westward } \\ & \text { Eand } \begin{array}{l} \text { and } \end{array} . \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Congers, middle. | 121 | 126 |  |
| Weet Heverstraw | 55 |  |  |
| Jones Point, middle |  |  | 81 |
| Iona Island. |  | 64 |  |
| Morgans Middie, between Fort |  |  |  |
| Montgomery and Highland Falls |  |  | 01 |
| Cornwail | 42 | 45 |  |
| Plum Point, between Cornwall and |  |  |  |
|  | 78 | 78 |  |
| Roseton, midale |  |  | 72 |
| Highland | 75 | 62 |  |
| Esopus, middle. |  |  | 78 |
| Kingston |  | 87 |  |
| West Athent |  |  | 94 |
| Slidings having intermediate cro beyond such crossover without mission from the Superintendent. |  |  | used |

beyond such croosmever without out
misesion from the Superintendent
singue track

\section*{Selkirk

Red Ro
Now
Now
Walde

King
Woat
Aho
Pho
Shan
Big
Gra}


- STATION STOPS.
train approaching the following stations, where another
train is receiving or discharging passengara, must ston
 digaal has been received, or until the passenger that
proceedas
Little Ferry. Harrington Park.

$$
\begin{aligned}
& \text { Lititle Ferry. } \\
& \text { Haworth. }
\end{aligned}
$$

Harrington Park.
Orangeburgh.
109. BULLETETN BOABDS AND Books.
lletin Orders posted in books must be signed for by Train and Yard service employes. ${ }^{\text {SStation masters office. }}$
Weehawken............. ${ }^{\text {GGeneral yard mastera ofice. }}$. North Bergen............... Enginere hause. masters Wumont...................... Signal Station Du. West Haverstraw............. Passenger r station.
Corawanger station. Nowburgh.....................


Albang...
Renseeliser
Renseliser.
Arkville...
Oneonta...
Yard office.
Engine house
Bagkage roon
Eaggage roome.
Enine house.
Gearar al yard masters office.
General yard masters oficioe.
East bound classification yard
D. \& H. station mastera ofe.
. Agents office
designation and uste of main tracks.
Between Signal Station SK and Signal Station KN.
Kingston and Montrgomery. Kingston and Oneonta.
D-151. Tracks
Between Signal Station NJ and Signal Station WE.
Through the interlocking limite of Signal Station FY. Signal Station DU and Siznal Station S
Tracks are numbered from the South:
Tracks are numbered from the
No 2, No. 1.
Tracks will be used as follows:
Tracks will be used
No. 2 , Eastward.
No. 1, Westward.
Four Trackiks:
Bettreen Sisnal Station WE and Signal Station DU, exceept
through the interlocking limits of Signal Station FY. Tracks are numberred from the South:
No. 4, No. 2, No. 1, No. 3 .
No. 4, No. 2, No. 1, No. 3.
Tracks will be used as follows: No. 4, No. 2, Esasward-Passenger.
No. 1, No. 3, Westward-Passenger.
D-251. MOVEVENT OF TRAINS WITYI THE CURBment OF IRAFHLC.
Between Signal Station TU and Signal Station SK. When signal cannot be cleared for trains moving with the
current of traffic between Signal Stations TU and WE, Manual Block Rules
under aboolute block.
d-261. Moviement of trains agando thi current OF TRAFFIC ON TWO OR MORE TRACKS BY
BLOCK SIGNALS.





The following Automatic Signals have square end blades
and/or vertical lights:
$\square$

$$
\text { Rule } 292 \text { will govera. }
$$

290. restrictel sfeid indications.
 293. switch targets.

Lights on main track awitches are not in use:

Rule 293 modified accordingly.
305. MANUAL BLOCK SYSTEM.

Manual block system is in use:
Single Track:
Between: Signal Station SK and Signal Station KN. Kingston and Montgomery
Kingston and Oneonta.
Rules 317-A and 331-A for absolute block for opposing and
following movements govern the movement of paseonger
trains trains.
Rules 317-B and 331-B for absolute block for opposing move-
ments and ments and permissive block for following movements
govern the movement of trains other than passenger traing
A Signalman may admit a train other than a passenger train
to a block that is wholly or partly within yard limits under a clear block indication when it is known that the block is not occupied by a passenger train or not occupied by a,
train other than a passenger train outside of yard limits.
Indientions of manual block signals will convey to ascond
clase and extra trains information as to condition of tha portion of the block that is not within yan in class and extra trains must move within yard limits pre-
parred to otop unless the main track if seen or known to be clear
Engines within yard limits must receive permisgoion from
bignaman before occupying main track snd report to
signalman when clear of main track. bignalman before occupying main trat
signalman when clear of main track.
Issuance of Clearance Forms A and B, or dispolay of permig-
sive indication, will be nuthorized by the train dispatcher
except in case of failure of communication.

When the number of loaded coal cars in eastward freight
trains exceed 25 per cent of the total number of cars in train, acooose included, such trains will be held at Garand
Hotel Station and Pine Hill for clear block. Conductors of suct trains will not accept Clearance Forms $A$ and $\begin{aligned} & \text { and } \\ & \text { at Grand Hotel Station or Pine Hill. Rule } 317-\mathrm{B} \text { modified }\end{aligned}$ aucordingly
Automatic Blo Automatic Bliock signals are in use in Manual Block terri-
tory as specified in list of Stations, Office Calls, Signals and Telephones and will indicatio conditition of of track olly oly be-
tween automatic Block signal and fixed signal reading tween automatic Block sienal and fixed signal reading

## 37. block btations.

Block etationg are open as specified in list of Stations, Office
Calls, Sigonals and Teleppent
605. AUTOMATIC BLOCK SYSTEM.

Automatic Block Sybtem
Two or More Tracks:
Two or More Tracks:
Between: Sigal Station NJ and Signal Station TU.
Signal Station WE and Sigal Stal Stion SK.
Except where Rule D-261 governs, Manual Block System
Rules will govern movements against the current of traffic.
Rules 317-A and 331-A for absolute block for opposing and
following movements govern the movement of passenger trains.
Rules 317-B and 331-B for absolute block for opposing moveRules
ments and permissive bol bock for follo fowng movements-
govern the movement of trains other than passenger trains. In automatic block signal territory the normal position of
interlocking signals for main track movement will be proceed except at:
S.S. NJ National Junction.
S.S. TU Weehawken.
S.S. WE North Bergen.
611 modified accordingly.

Haverstraw, Fort Montgomery and West Polnt
Trunnels.
If track is not in condition for movement of traine at
normal speed, the wire on either side of track muat be
 "Stop" or "Sto
case may be.
Between Jones Pofat and Kingston
If track is not in condition for movement of traine ath
normal speed, knife switches in boxes on various telegraph poles muat be opened promptly to cause automatic siggals to
stricted speed."
multon.
Hide detector fances are located along south side of track
No. 2, one third mile west of Mile Post 67 , east of
 Enginemen ninding either of the above aignale giving
such indication, will be governed as per rulue, and in
in sddition to looking for obstruction on their track, will addition to tooking for obstuction on their track, wing
also look for obstruction on opposite track, reporting
from nearest communiceting gtation, conditions noted.

Highland.
Slide detector fences are located along south side of track
No. 2 between Mile Post 73 and Mile Post 75.62 , west No. 2 between Mile Post 73 and Mile Post 75.62, west
of Hightand. When nlide or rock come in contact with
fence, Signals 723,739 , or 755 west and 736 or 764 east fence, Signals 723,739 , or 755 west and 736 or 784 east
will indicats "STOP, THEN PROCEED AT RE.
STRICTED SPEED." Enginemen finding any of the

 wesiwar
Kingston.
Westward freight trains should receive "Proceed" indiWestward freight trains should receive "Proceed" indi-
eation of Sighal
way
wrosing to avoid delay moving over Broad${ }_{\text {way }}$ crossing.
15. wherel base.

Engines with less than 28 feet wheel base must not be operated in automatic block system territory except ophen
coupled ot on onother engine or car. Rule 515 modified
eocordingly coupled
accordingly
©06. interlocking signals
Interlocking signals used as block signals will be indicated
by the letter IITT-M.B. in list of Stations, Office Calls,
Signals, and Telephonee teriblocking. Signal Station Tracks
Location
North Bergen Yard, west end..... WE...No. 3 to Yard
Bellmans Yard, east end....... FY....No. 3 to Yard Bellimangs Yard, en
Bergenfield, east of $\qquad$ No. 3 to Yard
No to Yard
No. 3 to No.
No. 1 to No.

zos. MAKE-UP OF FREIGET TTAANS.
Cranes in non-revenue trains must be hauled ahead of oura
occupied by craw unless othervise instructed. occupied by crew unless otherwise instructed.
scalle test cars must be hauled only in slow or local frelght Crsins.
Caboses must be handed on rear of trains except as otherwies
provided
5. lemaving cars on smeytracks.

During cold weather, when carss equipped with water gys-
tem ane left where there io no car inspector, conductor
must notify Superinterdent no must notify Superintendent promptly. When impossible
to place cars on to place cars on steam sid car inspector is not avaiable,
the setean connections hhould be parted and end valves,
admiseion valves and blow off or drain valves opened. The admizeion valves and blow of or drain valves opened. The
water system should be drained by opening faucets at wash
basir water system should be drained by opening faucets at wash
basin and drain valvee $i$ wash basin and bebind hoppers.
On cars dot On cars not equipped with drain valve behind hopper,
the hopper valve handue should be tied open. Waor
cooleres should be drained. Ste Heal Equipment Rule coolers should be drsined.
1725 is modified accordingly
Cars must not be beft bridging geross insulated joints in track
rails where tanle carr are placed. rails where tank carsa are placed.
Cars with hot journals mut not be left on any track in close
proximity to where gasoline is loaded or unloaded. proximity to where gasoline is loaded or unl
70s. car doors, curtains and gates
Where distance between gtation stope will not permit of
elooing trap and side veatibule doors on platiorm fide, trainmen must observe necessary precaution to insure
safety safety.
Veetibueule doors must not be open unless trap doors are raised
except when making station stop at high platform.
824. MaKw-up of passenger, mail, express and Passenger equipment must be of steel construction with the
exception that baggage, horse, refrigerstor and milk cars of ateel underirame construction may be hauled, aliso such steel ment.
Trens.
mid
Trains. containing more than 5 cars 60 ft . or over in length are
linited to rains containing not more than 5 cars 60 ft . or over in length are limited to 40 car
841. W. S. MAM..

A train handling a poestal car off its run must also make the
atope of the train in which it is usuanlly handlec. When necessary, in case of derailment or washout, employes must see that postal clerks and mail are promptly transierred
and every poosible convenionce furnished for wording the maili.
Risiros employes are required to handle, load and unload
atorage mail carried in baggage and storage carr, and in bagatorage
gane
 sin exprese. Conductor must not start train untin to
ding o TV.S Mail ie completed. Trains scheduled to stop to discharge passengers, and
must stop to unload mail.
A train ahall not depart from a station and leave muillo which are being loaded or are being trucked from vehioles or from
part of the station to the train or aboard a connecting train that has come to a stop in the same atation,
Mail should not be carried on trains anot revularly authorized to Mail should not be carried on trains not regularly authorized to
carry same unless requested in writing to do ono by a roproesenta-
tive of the Railway Mail Servico. carry same undess requested in wrian
tive of the Railway Mail Servico
When a train is regularly suthorizod
When $a$ train is regularly suthorizod to carry U. 8. Mail, all
mail offered at atations whero the Pont Omico Dopartment mail oriered at stations whero tho Poot Omice Dopartment
does not maintain Transfor Clerk or Pootal Clerk ahould be
sccepted regardlese of the apheco authorized.

When a regular authorization is exceeded from any station an
which the Post Office Department maintain \& Transfer Clerk
of Postal Clerk, the train

The Post Office Department Regulations provide the num-
ber of sacks, equiventent to units of space authorized as follows:
 101 to 1050 sacks
151 to 200 sacks
201 to 250 sacks-
2 outside parcels equal one sack
Utmost care must be used in handling fragile (red label) parcel Mail pouches dolivered unlocked must not be accepted but
returned to Posit Office Department.

$$
\begin{aligned}
& \text { raturned to Poote OUite Department. } \\
& \text { When mill arriveg late at night, or wh }
\end{aligned}
$$

When maill arriveg late at night, or when Government messen-
ger is ao on hand to receive it, it must be kept in a safe places
untill proper delivery can be made.
If a mail pouch is stolen, immediate adrice must be given to
U. 8. Mail Clerks, required to deadhead on mail traing, will be
permitted to ride in crew eoach on presentation of their travel

Train erews are not permitted to ride in Railway Poest Office cars while in ues, veren though the railroand company may
furnish a Railway Post Ofice car larger than the size authorfurnisb
Lized
All
full
All full mail carz and parts of ears having the legend "United
Stateas Mail" shall be reserved exclusively for carrying the malls and enhall not be used for any other purpose

## spheid restrictions.

Speed restrictions are shown in miles per hour and apply
GENERAL-Unless otherwise restricted.
Cireus trains with freight equipped cars. $\begin{cases}\text { Main Line } \\ \text { Branchese } & 30 \\ \hline\end{cases}$
Engines light or with caboose ........................35 30
Engines running backward by night over publio
Engines elasses B. \& U. under steam or being towed 20

Freight trains,
Not more than 4,000 tons...
Not more than 4,000 tons.................
More than 4,000 but not more than 5,000 tons.
More than 5,000 but not more than 6,000 .
More than 5,000 but not more than 6,000 tons.
More than 6,000 tons.................$~$
Between Saugerties and Selkirk Jet::
Not more than 5,000 tons.........

Passenger, mail, express, milk and deadhead equipment
trains, trains,
Main Line
N

Branches:
12 cars or less.
Passenger, mail, express, milk and deadhead equip-
ment trains, with freight equipped cars: ment traing
Main Line
Branches.
Passenger, mail, express, milk and deadhend equip 30
Revenue freight trains with cranes moving on their
own wheels..............................
Rail motor cara operating under their own power or
being
M-14 and M-404............. 50
$\mathrm{M}-14$ and $\mathrm{M}-404$.
$\mathrm{M}-10$ and $\mathrm{M}-201$.
All others. ...................................
Reil Detetor Car X 8015 ,
rear of passenger train ...................

Snow plowa and flangera.................... ${ }^{35}$ when diverging............................... Trains
rods.
 Trains with scale test car or Jordan spreader........ ${ }_{35}^{25}$ Trains with steam cranes X-17, $1818, \mathrm{X}-25, \mathrm{X}-27$ or
U. \& D. No. 1 , over bridges 45,46 and $94 . . . . \quad 20$ Work trains with locomotive cranes....\{变ain $\begin{array}{lll}\text { Branchess } & 30 \\ 30\end{array}$ At night, when operating against the current of
traffic in automatic block or manual block terri-
trame in automatic block or manual block terri-
tory where sivth lamp are not in use:
Over all hand operated switches. ............. 10 LOCAL-Unless otherwise restricted.
New Jersey Junctlon Railload.
gines, Classes, $K$, $\mathrm{G}, \mathrm{H}$ and L and N.Y.O.\&W.,
Enges.., L.V. and P.R.R. engines..............., 25
 over switches leading to National Doeks Branoh..
Signal Stations, NJ, AV and TU

Maln Lure.


Between Weehawken
and S.S.
Bridge $45 . . . .$.

| $\begin{array}{c}\text { Bridge 45 } \\ \text { Iona Island }\end{array}$ | 60 | 50 | 50 |
| :--- | :--- | :--- | :--- |
| $\begin{array}{c}\text { Ifa }\end{array}$ | 25 | 25 | 20 |

$\begin{array}{ccccc}\begin{array}{c}\text { Hona Island. } \ldots \ldots .\end{array} & 25 & 25 & 25 \\ \text { Bride } \\ \text { Iona } 46 \\ \text { Island. } \ldots \ldots & 40 & 40 & \end{array}$
Bridge 49,
Fort Montgomery.
Fort Montgomery. $40 \quad 40$
Bridge 94,




Weehawken
Between

Little Ferry Drambride to oast end on Beiliman M Yard
Eastward, tracks No. 4 and No. 2, freight trains.
Eitast Fard, tracks No. 4 and No. 2, freight trains.
Litle Fery Drawbrigge....................


West Nyack, reverse cu
Haveratraw Tunnel..
West Haverstraw to Stony Point, passenger, express, Tomkins Cove, Train equipment .o. .............. Firrt curve west of Jones Point Station..........
Fort Montgomery, Train No. 9 to dincharge papera.
Between Fort Montgomery and Mrile Post 44 ...... Between Fort Montyomery
Highland Falls, between Station and Bridge 56 .
Reverse curve Mile
Test Point tunnel.
West Point tunnel. . $1 . . . . . . . . . . . . . . . . . . . . . . . . ~$
Storm King Curve... Curwe and Cornwali..

Pewburgh, between
Pegg Point
Kidds Cove Cur...


Black Creek Curve, passenger, expross, milk and
deadhead West end Esopus middie to west ond Yoglo...
siding, Eastward, freight and world trains.... Kingston, Brosdway crossing Kingeton, Broadway crossing. .....
Kingston yard. . $\left\{\begin{array}{l}\text { Passenger } \\ \text { Freight trains. }\end{array}\right.$.
 Cementon, reversee curve, eaest of, passenger, expreess, milk and deadhad equirmen
Alsen, reverse curve eest of....
Alsen, reverse cu
Rightmerr Fill
Catskill viaduct.
Catkkill viaduct............................................ 30
Mile Post 128, first curve east of, passenger,
milk and deadhead equipment.
Ravena, between Mile Post R-1 and M-a......
Coeymans Fills..............
Sollirk Jet., curve.
Selkirk Jet., urre.....
Selkirk, firse curve east of
Temple High
Wemple, Highway erossing, west of station, Westward
trains...............
 Wallidu Valley Branch.
Frelght and work trains.
Tranins with steam Crane
Between Kingston Statin
siding tingston station and Phelan \& Cahill siding, cars weighing 210,000 lbs.......... 10000
Bridge W-52, Mile Post 4.46, cars weighing 210,000
 Bridge W-4i4, East of Binnewater, Engine $802 . . .$. Rosendale, reverace curv

 180,000 libs....
Gardiner \{Wailk kill Roadd \} Grade orossings. . ....... 10
ridge $W$-4,
Mile Post 29.14 \{ Cars weighing 1100000 ibs. Catskill Mountall Mranch.
Freight and work aralna
Trains with Steam Cran
 (Rondout, through Ferry St. and the Sitrand
Kingston $\left\{\begin{array}{l}\text { Foxhall Avenue, grade erossing........... } \\ \text { Cornell Street } \\ \text { O'Neil Street }\end{array}\right\}$ grade erossing.......... Downs St., grade erossing\{ [Wastward.
Bridge 9, West of Kingston. ..... Hi......
Between Mile Post $53 /$ and Weat
Passanger, milk and deadhead oquipment.
Freight trains, Eastward … .ile..............
milk and deashead equipment. ................ Between Phoenicia and Fleischmann's, passenger,
mailk and deashead squipment. ............. ridge 34, West of Phoenicia.
Grand Hotel Station to Big Indian, freight trains. rand Hotel Station, ourves east of.,.,.1................ Between Mile Post $471 /$ and Mill Post 50 , passenger,
milk and deadhead equipmento. Arkvill, through yard, first elass trains. Betveen Mile Post $521 / 2$ and Mill Poat 54, passenger
milk and dendhesd equipment............... ridge 55, West of Helcottville Bridge 59, West of Roxbury
Bridge 60, West of Roxbury.
....................
millk and deadhead equipment
 miilk and deandhead equipment. $1.6 . . . . . . .$.

Between Mile Post 681/ and Mile Post 69, passenger,
mill and deadhead equipment Stamford, throughead equillage liminita
Bridge 70 , East of Habart.
Hobast, through village li.
Between Hobart and Mile
milk and
Post
sir............
Between Mile adhead equipment. $821 / 4$, passenger, Bloomville over crossing, east of gtation.
Between Mile


engeng and car restrictions
Stasm engines must not be coupled head on when double
heading or running light. In case of emergency, instruoheading or rumning light. In oase of emergence,
tions should be obtained from Superintendent. Cara exceeding a tatal wright of 220,000 lbs. must no
be opersted over any part of the division except by suuthority of the Suprintendent.
Rail motor cars in danamaged condition, making them unfit
on Rail motor cars in damaged condition, making thema unfit
to be operated at speeds specified, must be hauled Bapparately.
Rail Detector Car X-8015 must not be operated in freight train.
train.
When operating locomotives or handling wide enhiprontant
exceeding the published clearancea, on which special exceeding the published clearances, on which special
restrictions have been laid, over sidings or in yards and
 unuusully wide equipment or
adjacent trackess are not passed.

Cara of a total weight of 220,000 libs. are subject to same
reatrictions as apply to engines Clise $\mathrm{H}-\mathrm{bor} \mathrm{L}$.
tessictions as apply to enginef Clase H-s or
Engines heaviod Jot and National Junction.
Elass L, B. \&\& A. Class
Engines heavier than Class $\mathrm{L}, \mathrm{B}$. \& A A. Clisss A-1, or
N. Y. \& W. Class Y (Nos. 451 to 460 ) must not
be operete
Between Cornwall and Weehawken.
Coai itains restricted to 75 carr, $, 4,500$ tons.
Weehswken.
Elevator on Pier 7
7
Engines must not be operated. Cars exceeding total
weight of 170,000 lbe. nust not be opereated.
Transfer bridges, Nos. 2,5 and 6 are limited to a groose
weight of 120,000 lbs. Engines must not be operatad
woight of ther $\begin{aligned} & \text { over thes. }\end{aligned}$
Transfor bridges, Nos. 1,3 and 4 . Engines, other than
Clesses B and E, must not be operated. Engines, with double cabs, must not be operated through
tunnel, without twa men in forward osb. North Bergen.
Engiaes, Class L, and B. \& A. Class A-1, must not use
turn table.
Tappan.
Engines,
End
appan.
Engines, Classes G-6, H-5, K-3, L, B. \&\&A. Class A-1
and N. Y. O. \& W. Classes P, W and Y must not use
Haverstraw.
E. W. Johnson coal trestle.
Engines must not be operated.
Cars exceeding 160,000 lbs. must not be operated. Clark \& Bennett coal trestle.
Engines must not be operated.
West Haverstrav.
Engines, Classes G-6, H-5, K-3, L, B. \& \& A. Class A-1
and N. Y. O. \& W. Classes P, W and Y must not use turn table.
Engines, Classes H-5, L, B. \& A. Class A-1 and
N. Y. O. \& W. Classes P, W and Y must not be N. Y. O. \& W. Classes SP W, W and Y must not be
operated on interchange track.

Bear Mountain.
Palicisade Interstate Park.
Ealisade Interrstate Park.
Enines must not bo operated beyond a point 75 feet
west of treestle.
West Point.
United States Military.
Engines must not be operated on trestlo.
Cornwall.
N. Y. O. \& W. yard.
Engines must ont be operated except on Tracke 1, 2, 3,
8,9 and 10 . Track No. 21 may bo used for empty


Newburgh.
Engines, Class L, and B. \& A. Class A-1 must not use Engines, Class
turn table.
Engines. Classes K-3, K-11, K-14, H-5, L, and B. \& \&
A. Class A-1 must not be operated on westerly A. Class A-1
or wall track.

Kingston.
Engines, Class L , and B. \& A. Class A-1 must not use
turn table. turn table
Alsen
Engines must not be operated on track leading to South
trestle or beyond storage shed on North side of Lehigh Portland Cement Company plant

## Wallkil Valley Branch

Engines, except Closeses E, Ec, Ed and FX, Nos. 800,801 , 801 , $802,803,804,805,808$ and 807 , must not be operated. Engine so2, when doubleheading must te sesearateded rom
second engine by at least three cars weiphang loaded, second engine by at least three cars weighing loaded,
not in excess of 140,000 Ibs. each. If operated single,
must no be placed next to car in excess of 140,000 liss. not in excess of 140,000 tos. each. Ir operated single,
must not be placed next oran in exess of 140.000 lis.
Between Kingston and Montgomery, New York Central Between Kingston and Montgomery, New York Central
covered hopper cars in series s80000-80199.and forecign
mark cars of similar or greater length, weighing loaded
 2010,000 lbs., may be ooperated, coupled together.
orerign mark carss, shorter thanN NYC hopper cars shown arbove, weighing, loaded 210,000 lbs., must be separated
from engine or other cars in excess of 120,000 lbs. by from engine or other cars in excess of 120,00
at least one car not in excess of 120,000 lbs.
Train hauling steam crane X-8 must have crane sep-
anated from engine or rom cars weighing in excess of
64,000 los., by at least one car not in excess of 64,000 lbes. Rosendale.
E. H. Demarest trestle.

Engines must not be. operated.
Cars exeeding gross weight 120,000 lbs. must not
be operated. Walden.
C. W. Hill coal trestle Rider-Ericeson Engine Co. cool trestle.
Engines or cars must not be operated
. S. Walker private siding. Cars exceeding 110,000 libs. must not be operated Catskill Mountain Branch.
Engines hasvier than Class E-1-A must not be operated.
Cars weiphing 210,000 pounds loaded, must be sepa rated from engine or other cars weighing in exxess of 64,000 pounds by at least two cars weighing
Ioded, not in excess of 64.000 pounds each. loaded, not in excess of 64.000 pounds each.
Trains shauling steam crane $\mathrm{X}-17$ must have erane sepa-
rated from engine or from cars weighing in excess of 64,000 lbs., by at least one cars weighing in int in excesess of 64,000 libs. Must stop then proceed carefully
through Hasbrouck Ave.,Tunnel, between Kingston and Rondout, account scant overhead clearance.
Steam crane X-17 must not ilit loads with crane stand-
ing ing on a bridge without special permission or unless
the front wheels are supported by timber beams. Rondout.
Coul trestl
Coul trestle.
Engines heavier than Class FX (Nos. $800-807$ in-
Bridge 9 .
Not more than two engines coupled to be operated. coupled, must have crane, handled by two engines, by at least one car.
Cars exceeding a total weight of 210,000 lbs. must not
be operated.

## watere stations.

New Jersey Junction Railroad.
Jersey City, Newark Avenue.


Track motor cars. Kingston and Montgoomery
Kenwood Jct. and Selkirk Jet
 Track motor cars must be equipped with portable telephones
Track motor cars must not be placed on main track until move ment has been authorized and must be removed promptly hangine crews.

Wind shield
tunnels:
Weeha
anels:
$\begin{gathered}\text { Weehawken } \\ \text { Haverstraw }\end{gathered}$
ASSENGER TRAINMEN.

| $\begin{aligned} & \text { Whan } \\ & \text { rear } \mathrm{car} \\ & \text { ier } \end{aligned}$ | And car ahead is | Carry equipment in following location |  |
| :---: | :---: | :---: | :---: |
|  |  | Storm elothing | Container and ianterns |
|  | Pullman. Pullman. Pullman. Pullman. <br> Coach. |  |  |
| $\begin{gathered} \text { Pullmnn } \\ \substack{\text { puithout } \\ \text { piberva } \\ \text { tion end }} \end{gathered}$ |  | $\left\lvert\, \begin{gathered} \text { On door catoh of } \\ \text { aisel } \\ \text { rear of troinain. } \end{gathered}\right.$ |  |

When more than one private car, conductor will instruct rear
brakeman where equipment will be carried. Grips or other personal effectst not required in line of duty must
cating, highting and venthamion of cars. ment, effective February 1, 1930, govern. The application of Steam Heat Equipment Rule No. 1724 is as

| $\underset{\substack{\text { Approaobh } \\ \text { ing }}}{\substack{\text { ang }}}$ | $\underset{\substack{\text { Direoo- } \\ \text { tion }}}{\substack{\text { and } \\ \hline}}$ | Open rear end train pipe valve | Engineman shut off steam at |
| :---: | :---: | :---: | :---: |
| Weehawken.. | Ea | Bellmans Yard. | Bellmans Yard. |
| Dumon | w | East of Now Bridgo | East of Now Bridgo |
| Tappan. | Westwar | West of West Nor- | West of |
| West | Westward. | Westoof Haverastr | West of Ho |
| $\begin{aligned} & \text { Nowbu } \\ & \text { Nowne } \\ & \text { Kimget } \end{aligned}$ | Westward | nel | tunnel. |
| Kingo | Eastward... | Lake |  |
| Ravena | Westward. | ew | Weat oi |
| Albany | Westward.. | Eas | Enat |

Rear end train pipe valve must be opened gradually to full open
position when blowing out steam line to avoid gaskets being hen one or all of the first five cars in train are equipped with
unbber steamm hose rubber steam hose and 130 pounds steam pressure
sufficient to properly heat the train, pressure may be inceased
to 150 pounds. Steam Heat Equipment Rules Nos. to 150 pounds. Steam Heat Equipment Rules Nos. 1706,
1707 , and 1712 modified accordingly. Before stearn pressure is connected to standing cars,
valve must e colosed at oppposite end of line
When double windows are open, both windows must be raised to the same level.
to Doors, ventilators, fans, windows and shades must be properly
adjusted at terminals and enroute to provide maximum comfort to passengers acording to existing weather conditions.
Electric fans will be suut or on arrival at terminal by train
crews if cars are to be stored. Ar braikes.
R BRALKLES
Rules for the Operation and Supervision of Air Brake and Train Ait in rimpal effective Ferbuary 1, 1930, goverr.
The note at foot of Air Brake Rule 1554 issued in paster form, The note at foot of Air Brake Rule 1554 issued in paster form,
modifying Rule 1554 of Rules for the Operation and Supervimodifying Rule 1554 of Rules for the Operation and Supervi-
sion of Air Brake, etc., effective February 1,1930 , is modified NOS follows:
NOTE-It will be observed from the foregoing that the loo--
motive brake should be permitted to apply with the train motive trake should be permitted to apply with the train
hrake when making running tests, unless in the judgment
oi hee enginemanan, it is is necesary to prevent the locomotive
brake applying to avoid stalling.

Brake pipe feed valve to be adjuyted to 90 pounds on locomotive
handling freight cars or freight cars in passenger trains; and retaining valves must be turned up in descending grades between following points:
Kingston and Rondout Kingston and Rondout.
West Hurley and Mile
Post Grand Hotel Station and Big Indian.
Grand Hotel Station and Fleischmann Grand Hotel Station and Fleischman
Kortright Station and Bloomville.
Kortright Station and East Meredith
Retaining valves muts also be used on such other trains and
grades where, in the judgment of engineman, the use of retainers is necessary. manner as to maintain a brake pipe pressure of not less than 55 pounds, trains must be stopped until pressure is restored. 55 punds, trains must be stopped until
See Air Brake Rules 1574,1575 and 1576 .
In case of failure of ir
In case of failure of air brakee engineman must immediately tion and should sound whistle pignal 14-A, and train must be Conductor will be held responembibe for the correct use of pressure retaining valves and to know that trainmen are in their proper location on the tram
HAND RRAKE THEST.
When becking freight trains, sufficient hand brakes must bo applied on rear to prevent elack running out.
NOW PLOW GOUIPMENT
When snow plows or flangers aro being operated, as member of
the train crew must, unless otherwise instructed, remsin in
the the snow plow or flanger to protect movement of treina nad in in
case of emergency, assist in operating snow plow or flanger. case of emergency, assist in operating snow plow or finger.
Wingz on sow plows must be elosed when meeting or passing
trains, or being passed by trains on adjacent tracks. Lu additrains, or being passed by trainn on adjacent tracks. LI addi-
tion to flanger being raised at flanjer signe they muid be
raised when meeting or passing, or being passed, by trains on adjacent tracks where snow is being thrown.
Snow plows must not be hauled backward when being moved in freight train.
patahifies
When a passenger dies in a sleeping car, the body may be left in
berth properly screened until removed from train; when in parlor cor or coach, body should be removed to baggage car
and physician secured, if available on train, who may certify Ths to cause of death.
The body of a person who dies on a train must be left at first
station stop where a health officer is available and station employe on duty. Station employe must not permit the body to be removed from station without proper authority.
If person who dies is accompanied by an attendant, conductor must confer with attendant as to disposition of body, and such
information must be given to the satition If train stops at a station other than where the body can be remored, conductor will give advance notice to the station health officer promptly.
When fatal accident occurs on right-of-way, the body should be removed to the nearest available shelter or station, care bein
taken not to move the body from one county to another. cubrication and care of journal boxis.
Current "Instructions for the Lubrication and Care of Journal
Boxes" govern.
When a stopped and examination made. Packitg must be adjusted or box repacked be corrected in this manner or car caunot bo
heating cannot be pound, car should be set out.
Water or ong snow should not be used for cooling hot journals excep in emergency, and when used, journal ahould be cooled as
slowly as conditions will permit. When cars with hot journals are set out where inspectors do not
take immediate charge precaution must be taken to know Cake immediate charge, precaution must be taken to know
that journal is left in condition to avoid damage to car by fire Conductor must make prompt report to Superintendent and car Yoreman of cars treated enroute, or set out account overheated
journal, stating whether treated by cooling compound or by water or snow.
Cooling Compound.
An approved hot journal cooling compound, and Form NYCS An approved hot journal cooling compound, and Form NYCS
RS-7, furnihed by storekeeper, ball becosrried as part of
caboose equipment and train erew equipment in passenger caboose equipment and train crew equipment in passenger
service.
Cooling compound shall be used for treatment of overheated Cooling compound shall be used for treatment of overheated
oounnals of corrs enoute in trains. Treatment should be given
before jourral becomes rec.

Journals witt
compound
compound. When applying cooling compound, packing in journal box shall
be looosed by use of packing iron, after which, cooling com-
pound pound shall be applied along full length of rising side of journal; or inside end of jouran.l
Cara having journala treated with cooling compound shall be tagged in a prominent place near journal
NYCS RS-74, at time compound is applied.
movimment of dmad enginies in trains.
Rulee for the Operation and Supervision of Air Brake and Train
Air Signal, effective Februarry 1, 1930 , govern. Air sigual, effective February 1, 1930, govern.
All enginee equiped with tide roda must have then appied
when handled dead in trina, muitable washers, or wooden when handled dead in train, suitable washers, or wooden
blocks clamped together with bolta, being ued where necesaryead curar baces
Ovarineay expers warned of close overhead clearancer at the following locations and muet not go on top of box cars, engineo or
other high equipment while movements are being made under
ond these bridges or struetures:

| location | obstruction | track |
| :---: | :---: | :---: |
| Jersey City. | Old freight houne root. | Siding |
|  |  |  |
|  |  | No. $\begin{aligned} & \text { No. } 1 \text { and } 2 . \\ & 1 \text { and } 2 .\end{aligned}$ |
| Hoboken. | $\begin{aligned} & \text { Overhe } \\ & \text { roof. } \end{aligned}$ | R. B. Davis sidiag |
|  |  |  |
|  |  |  |
|  | Sitater | $\underbrace{\text { Not }}_{\substack{\text { Saranton } \\ \text { No. } 2 .}}$ |
|  | Wilow Avenue troight |  |
|  | M hious roof. |  |
| Woehawken. |  | Molasses Co's. siding. Nos. 1, 2 and ridiggs. Nos. 1, 2 and sidings. |


| New Jersey Shore Line Ralliroad |  |  |
| :---: | :---: | :---: |
| location | obstruction | track |
|  |  |  |
| Main Line. |  |  |
| location | obstruction | track |
| Weehawh |  | Traok 39. <br> and 54 Traks 100 and 101. |
|  |  | Track 105. <br> 6 and 107 Track 121. <br> Tracks 129 and 135. Tracks 322 and 323 . Tracks 322 and 323. Tracks 190 and 197 |
|  |  | Track 2 |
|  |  | Tracks 327 and 328. Tracks 251 and 279. Tracks 253 and 291. |
|  |  | Tracks 276 and 312. <br>  |
| North Bergen. |  | Nos. $1,2,3$ and 4. <br> Nos. $1,2,3$ and 4. Track 132 . |
|  |  | Nos. 1, 2, 3 and 4. <br> Teaneck Lumber \& Supply |
| Bogota. <br> aneck <br> Weat Englewood. <br> Bergenfield. <br> Haworth. <br> Orangeburg. |  |  |
|  |  | Supply Coinsiding |
|  |  |  |
|  |  | Nos. 1, 2 and sidings. Fibre Conduit Co.'s siding. |
|  |  |  |


L. RELYEA, Superintendent.
H. G. FARNHAM, Assistant Superintendent.
P. W. FOLAND Chief Train Dispatcher.
R. A. DEAN \Assistant Chief Train
C. W. POUGH
Dispatchers.
R. G. MAY
$\left.\begin{array}{l}\text { R. } \\ \text { W. } \\ \text { R. L. STEWART }\end{array}\right\}$ Train Masters.
G. E. SMACK
I. JONES
K. E. SNYDER
A. GOUSE
c. C. CHIARAD
A. G. COUSE
C. CHIARADI
J. B. VERNOOY

| J. |
| :--- |
| J. TERWIL |
| G. B. KERIEN |




On single track, westward trains are superior to eastward trains of the same elass, unless otherwise specified.
Time shown at N. Y. (Cortlandt St.), N. Y. ( $42 d \mathrm{St}$.) and Albany is for information only.

WEST SHORE R. R.-WEEHAWMEN TO ALBANY.
WESTWARD-FIRST-CLASS.






Time shown at Abany, N. Y. (42d St.), and N. Y. (Cortlandt St.) is for information only.






STATIONS, OFFICE CALLS, SIGNALS AND TELEPHONES.


STATIONS, OFFICE CALLS, SIGNALS AND TELEPHONES.


STATIONS, OFFICE CALLS AND SIGNALS. CATSKILI MOUNTAIN BRANCH.


## ABBREVIATIONS



STATIONS, OFFICE CALLS, SIGNALS AND TELEPHONES.

WALLKILL VALLEY BRANCH.
KHNGSTON TO MONTGOMERY.


ABEREVIATIONS.


## SPEED TABLE

NOTE-This table is for information only and does not authoriza exoeeding speed limitations of special instructions or however imsued.

| Thme per Mille |  |  |  | $\begin{array}{\|c\|} \hline \text { Miles } \\ \text { per Hour } \end{array}$ | Time per Mile |  |  | $\begin{array}{\|c\|} \hline \text { Miles } \\ \text { per Hiour } \end{array}$ | Thme per Melle |  |  |  | $\left\|\begin{array}{c} \text { Miles } \\ \text { per Hour } \end{array}\right\|$ | Tmm | (per ${ }^{\text {m }}$ | Ifle | $\left\lvert\, \begin{gathered} \text { Miles } \\ \text { per Howr } \end{gathered}\right.$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | min. | 36 |  | 100.00 |  | min. 30 | see. | 40.00 |  | min. | 24 |  | 25.00 |  | min. 18 |  | 18.18 |
| 0 |  |  |  | 97.30 |  | ${ }^{46} 31$ |  | 38.56 | 2 |  |  |  | 24.83 |  | " 19 |  | 18.09 |
| 0 | " | 88 | " | 94.74 \% |  | 482 | $\cdots$ | 39.13 | 2 | " | 26 |  | 24.66 | 8 | $\begin{array}{ll}4 & 20\end{array}$ | " | 18.00 |
|  | ${ }^{4}$ | 38 | ${ }_{4}$ | 92.31 |  | 4 88 | 4 | 88.71 | 2 | ${ }_{4}$ | 27 | " | 24.48 |  | ${ }_{4}^{4} 21$ | ${ }^{4}$ | 17.91 |
|  | ${ }^{4}$ | 40 | ${ }^{*}$ | 90.00 |  | 434 | ${ }^{6}$ | 38.30 | 2 | 4 | 28 | ${ }^{4}$ | 24.32 | 3 | ${ }^{4} 822$ |  | 17.82 |
|  | ${ }^{4}$ | 41 | $\stackrel{3}{4}$ | 87.80 |  | ac 35 |  | 37.89 | 2 | ${ }^{4}$ | 28 | ${ }^{\prime \prime}$ | 24.16 |  | C8 28 | ${ }^{6}$ | 17.73 |
| 0 | " | 42 | " | 85.71 | 1 | ca 36 | " | 37.80 | 2 | * | 30 | ${ }^{6}$ | 24.00 | 3 | ${ }^{\sim} 24$ | ${ }^{6}$ | 17.65 |
|  | ${ }^{*}$ | 48 | ${ }^{5}$ | 83.72 | 1 | ${ }^{4} 37$ | ${ }^{6}$ | 37.11 | 2 |  | 81 | ${ }^{6}$ | 23.84 |  | * 28 | " | 17.56 |
|  | ${ }^{\circ}$ | \$4 | " | 81.82 |  | C 38 | ${ }^{6}$ | 36.78 | 2 | ${ }^{\prime \prime}$ | 32 | ce | 23.68 |  | ${ }^{46} 28$ |  | 17.48 |
| 0 | ${ }^{68}$ | 45 | " | 80.00 | 1 | * 89 | ${ }_{4}$ | 86.86 | 2 | " | 83 | ${ }_{*}$ | 28.68 | ${ }^{8}$ | 4 | ${ }^{4}$ | 17.89 |
| 0 | " | 46 | " | 78.26 | 1 | a 40 | ${ }_{4}^{68}$ | 86.00 | 3 | c | 84 | ${ }^{6}$ | 23.88 | 8 | 428 |  | 17.81 |
| 0 | ${ }^{4}$ | 47 | * | 76.60 | 1 | * 41 | ${ }^{6}$ | 35.64 | 2 | ${ }^{4}$ | 35 | ${ }^{6}$ | 23.28 | 3 | ${ }^{\text {ce }} 29$ | ${ }^{8}$ | 17.22 |
| 0 | ${ }^{\circ}$ | 48 | ${ }^{6}$ | 75.00 |  | ${ }^{6} 42$ | ${ }^{*}$ | 35.28 | 2 |  | 86 | ${ }^{\prime \prime}$ | 28.08 | 8 | "5 30 |  | 17.14 |
| 0 | ${ }^{46}$ | 49 | " | 78.47 | 1 | ${ }_{65} 48$ | ${ }^{4}$ | 84.95 | 2 | " | 37 | " | 22.98 |  | * 31 | 4 | 17.06 |
| 0 | ${ }^{6}$ | 50 | ${ }^{\prime \prime}$ | 72.00 | 1 | ${ }^{6} 44$ | ${ }^{\prime \prime}$ | 34.62 | 2 | * | 88 |  | 22.78 | 3 | ${ }^{4} 82$ |  | 16.88 |
| 0 | ${ }^{4}$ | 51. | ${ }^{\prime \prime}$ | 70.59 | 1 | ¢ 45 | ${ }^{\prime}$ | 84.29 | 2 |  | 39 | ${ }^{\prime \prime}$ | 22.64 | 8 | * 38 |  | 16.80 |
| 0 | $\cdots$ | 52 | ${ }^{6}$ | 69.23 | 1 | ${ }^{4} 46$ | ${ }_{6}^{6}$ | 88.96 | 2 |  | 40 | ${ }^{6}$ | 22.50 | 8 | ${ }^{\circ} 88$ | es | 16.82 |
| 0 | ${ }^{\prime \prime}$ | 83 | ${ }^{\circ}$ | 67.82 | 1 | 4.7 | ${ }^{*}$ | 83.64 | 2 | ${ }^{4}$ | 41 | ${ }^{6}$ | 22.88 | 8 | ${ }^{3} 85$ | ${ }^{6 \prime}$ | 16.74 |
| 0 | ${ }^{6}$ | 34 | ${ }^{\circ}$ | 68.67 | 1 | 48 | ${ }^{*}$ | 83.38 | 2 | " | 42 | * | 22.22 | 8 | - 36 |  | 16.67 |
| 0 | " | 55 | ${ }^{6}$ | 85.45 | 1 | as 40 | ${ }^{*}$ | 33.08 | 2 | ${ }^{6}$ | 48 | * | 22.08 | 3 | ${ }^{4} 87$ | ${ }^{6 \pi}$ | 16.59 |
| 0 | ${ }^{4}$ | 56 | ${ }^{6}$ | 64.29 | 1 | - 80 | ${ }^{4}$ | 82.78 | 2 | ${ }^{*}$ | 44 | ${ }^{\prime \prime}$ | 21.85 | 8 | - 38 | 6 | 16.81 |
| 0 | ${ }_{6} 6$ | 57 | ${ }^{\prime}$ | 63.16 | 1 | ¢ 61 | ${ }^{4}$ | 32.48 | 2 | " | 45 | $\cdots$ | 21.82 | 8 | c 89 | ${ }^{6}$ | 16.44 |
| 0 | ${ }^{4}$ | 58 | " | 62.07 | 1 | ${ }^{4} 82$ | ${ }^{4}$ | 32.14 | 2 |  | 46 | ${ }^{4}$ | 21.68 |  | " 40 |  | 16.36 |
| 0 | ${ }^{48}$ | 58 | $\stackrel{3}{ }$ | 61.02 | 1 | C8 | ${ }^{4}$ | 81.88 | 2 |  | 47 | c | 21.56 |  | ${ }^{6 s}$ 41 |  | 16.29 |
| 1 | $\cdots$ | 0 | ${ }^{4}$ | 80.00 | 1 | - 84 | ${ }^{6}$ | 81.58 | 2 | " | 48 | " | 21.48 | 8 | ${ }^{1} 42$ | ${ }^{\circ 1}$ | 16. 22 |
| 1 | $u$ | 1 | ${ }^{\prime \prime}$ | 59.02 | 1 | - 85 | ${ }^{4}$ | 81.30 | 2 | 4 | 49 | ${ }^{6}$ | 21.30 |  | C 43 |  | 18.14 |
| 1 | , | 2 | " | 88.08 | 1 | 4 68 | * | 31.03 | 2 |  | 50 |  | 21.18 |  | ${ }^{6} 84$ |  | 16.07 |
| 1 | 4 | 3 | ${ }^{56}$ | 57.14 | 1 | ${ }^{48} 57$ | ${ }^{6}$ | 30.77 | 2 |  | 51 | ${ }^{48}$ | 21.05 | 3 | ${ }^{4} 845$ |  | 16.00 |
| 1 | " | 4 | ${ }^{\circ}$ | 56.25 | 1 | as 88 | ${ }^{4}$ | 30.51 | 2 | 4 | 52 | ${ }^{\circ}$ | 20.93 | 8 | * 46 | $\cdots$ | 18.98 |
| 1 | ${ }^{4}$ | 5 | ${ }_{6}$ | 55.38 | 1 | a 59 | ${ }^{\prime}$ | 30.28 | 2 | , | 53 | ${ }^{56}$ | 20.81 |  | ${ }^{4} \quad 47$ |  | 15.86 |
| 1 | ${ }^{6}$ | 0 | ${ }^{6}$ | 54.55 | 2 | * 0 | ${ }^{6}$ | 30.00 | 2 |  | 54 | " | 20.69 | 3 | ${ }^{6} 48$ |  | 15.78 |
| 1 | ${ }^{6}$ | 7 | " | 58.78 | 2 | ${ }^{4} 1$ | ${ }^{\text {a }}$ | 28.75 | 2 |  | 85 | ${ }^{6}$ | 20.57 | 8 | * 40 | 4 | 15.72 |
| 1 | " | 8 | ${ }^{6}$ | 52.94 | 2 | 42 | ${ }^{6}$ | 29.81 | 2 | $\stackrel{4}{4}$ | 58 | " | 20.45 | 3 | ${ }^{\text {a }}$ 50 | ${ }^{6}$ | 18.88 |
| 1 | * | 9 | " | 82.17 | 2 | 8 | ${ }_{4}$ | 29.27 | 2 | * | 57 | ${ }^{\prime \prime}$ | 20.84 | 3 | ${ }_{*} 81$ |  | 16.68 |
| 1 | ${ }^{*}$ | 10 | * | 51.43 | 2 | 4 | ${ }^{4}$ | 29.08 | 2 | ${ }^{4}$ | 58 | ${ }^{*}$ | 20.22 |  | ${ }^{\sim} 52$ |  | 15.52 |
| 1 | 4 | 11 | ${ }^{\circ}$ | 50.70 | 3 | ${ }_{4} 6$ | ${ }_{6}^{6}$ | 28.80 | 3 | ${ }^{4}$ | 58 | ${ }^{4}$ | 20.11 | 8 | 46 4 | ${ }_{0}^{6}$ | 18.45 |
| 1 | ${ }^{5}$ | 12 | ${ }^{6}$ | 50.00 | 2 | 6 | ${ }^{6}$ | 28.57 | 8 | ${ }^{\prime \prime}$ | 0 | ${ }^{6}$ | 20.00 | 8 | ${ }^{48} 54$ |  | 15.88 |
| 1 | " | 18 | " | 49.31 | 2 | 7 | ${ }^{4}$ | 28.35 | 3 | ${ }^{6}$ | 1 | ${ }^{4}$ | 18.89 | \% | ${ }^{4} 88$ |  | 16.82 |
| 1 | ${ }^{6}$ | 14 | ${ }^{4}$ | 48.65 | 2 | 8 | ${ }^{*}$ | 28.12 | 3 | " | 2 | ${ }^{4}$ | 18.78 | 3 | * 56 |  | 15.25 |
| 1 | ${ }^{6}$ | 15 | ${ }^{5}$ | 48.00 | 2 | - 9 | ${ }^{4}$ | 27.91 | 3 | ${ }^{6}$ | 3 | ${ }^{6}$ | 19.87 | 3 | ${ }^{64} 57$ | ${ }^{4}$ | 15.19 |
| 1 | ${ }^{6}$ | 16 | ${ }^{6}$ | 47.87 | 2 | ${ }^{4} \quad 10$ | ${ }^{*}$ | 27.69 | 3 | " | 4 | " | 19.57 | 3 | c 58 |  | 15.18 |
| 1 | ${ }^{6}$ | 17 | ${ }^{\prime}$ | 40.75 | 2 | c 11 | $\cdots$ | 27.48 | 3 | ${ }^{6}$ | 5 | ${ }^{\prime \prime}$ | 19.46 | 3 | a 59 |  | 15.06 |
| 1 | ${ }^{*}$ | 18 | " | 46.15 | 2 | - 12 | ${ }^{4}$ | 27.27 | 3 | " | 6 | ${ }^{46}$ | 19.35 | 4 | 360 |  | 15.00 |
| 1 | ${ }^{6}$ | 19 | ${ }^{6}$ | 45.57 | 2 | ${ }^{6} 18$ | cs | 27.07 | 3 | " | 7 | ${ }^{4}$ | 19.25 | 4 | C 17 |  | 14.00 |
| 1 | ${ }^{4}$ | 20 | ${ }^{64}$ | 45.00 | 2 | " 14 | ${ }^{6}$ | 26.87 |  | " | 8 | ${ }^{4}$ | 19.15 | d | " 36 |  | 13.00 |
| 1 | 4 | 21 | " | 44.44 | 2 | ${ }^{6} 18$ | 3 | 26.67 | 3 | ${ }^{*}$ | 9 | ${ }^{\prime}$ | 19.05 | d | ${ }^{6} 0$ |  | 12.00 |
| 1 | ${ }^{\circ}$ | 22 | " | 43.90 | 2 | ${ }_{4} 16$ | 4 | 26.47 | 8 | " | 10 | " | 18.95 | 5 | " 27 | ${ }^{*}$ | 11.00 |
| 1 | ${ }^{*}$ | 23 | ${ }^{\prime \prime}$ | 43.37 | 2 | a 17 | ${ }^{4}$ | 28.28 | 3 | " | 11 | ${ }^{6}$ | 18.85 | 6 | * 0 |  | 10.00 |
| 1 | ${ }^{\prime \prime}$ | 24 | ${ }^{\prime}$ | 42.86 | 2 | \% 18 | ${ }^{*}$ | 26.08 | 3 | ${ }^{4}$ | 12 | ${ }^{4}$ | 18.75 | 6 | ${ }^{\circ} 40$ |  | 9.00 |
| 1 | " | 25 | ${ }^{\prime \prime}$ | 42.35 | 2 | ( 19 | a | 25.90 | 3 | ${ }^{*}$ | 13 | ${ }^{*}$ | 18.65 | 7 | a 80 |  | 8.00 |
| 1 | " 6 | 26 | $\cdots$ | 41.86 | 2 | - 20 | ${ }_{\text {a }}$ | 25.71 | 3 | ${ }^{4}$ | 14 | ${ }_{4}^{4}$ | 18.56 | 8 | ${ }_{08} 34$ |  | 7.00 |
| 1 | c | 27 | ${ }^{6}$ | 41.38 | 2 | - 21 | ${ }^{\infty}$ | 25.83 |  | $\cdots$ | 15 |  | 18.46 | 10 | 30 |  | 6.00 |
| 1 | " | 28 | $\stackrel{8}{6}$ | 40.81 | 2 | - 22 | ${ }_{4}$ | 25.35 | 3 |  | 16 | cs | 18.37 | 12 | c 0 |  | 5.00 |
| 1 | ${ }^{6}$ | 29 | ${ }^{6}$ | 40.45 | 2 | 23 | ${ }^{\prime}$ | 25.17 |  | " | 17 | ${ }^{6}$ | 18.27 |  |  |  |  |




