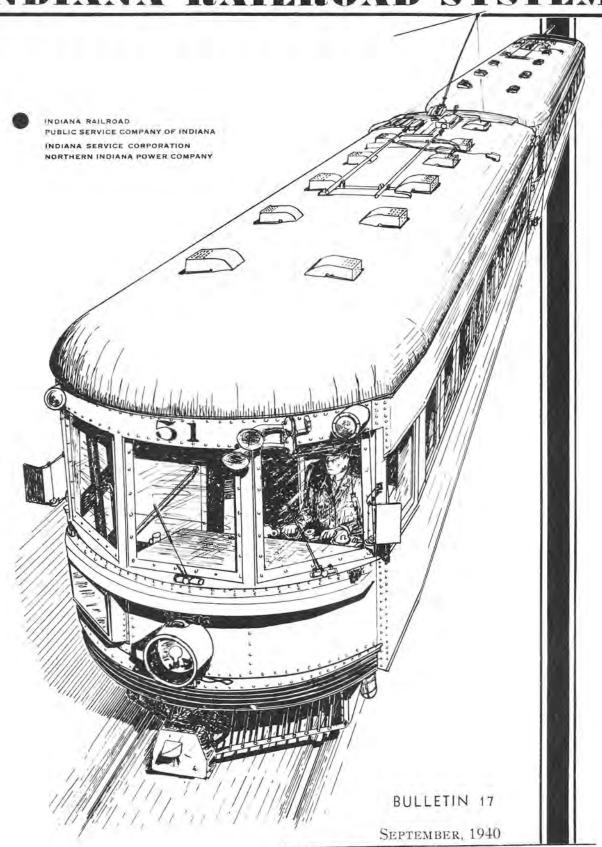
# INDIANA RAILROAD SYSTEM



CENTRAL ELECTRIC RAILFANS' ASSOCIATION CHICAGO, ILLINOIS

## INDIANA RAILROAD SYSTEM



The story of the Indiana Railroad System is a tale of one of the most interesting and diversified interurban railroads ever operated, the story of a struggle under the most difficult and unfavorable conditions to keep in service a network of inter-city electric railways gridding central Indiana. Here is the last stand of the "interurban" (in its original sense) in the entire midwest. Possibly no other railway property has been the subject of more railfan interest and comment — both praise and criticism.

For this reason in this bulletin our viewpoint has shifted from the customary analysis of road, equipment and operation from a technical stand to a searching study of the why-and-wherefor of the gradual failure despite all efforts of a ten-million dollar railroad located in the center of one of the densely populated industrial-rural territories of the land, combined with accurate and concise data on the technical features.

The Indiana Railroad began as a consolidation of a number of underlying electric railway companies each with a history of 20 or more years of operation, starting with the original line of the Union Traction Company between Alexandria and Anderson in 1897. Each of these companies built its own power station and, as a side line, branched into the sale of electric energy to the public. Gradually the utilities expanded until they overshadowed the railways which had developed the communities that made the power companies great. With the advent of the automobils and paved roads the individual need for interurban service diminished rapidly and the advantages of consolidated operation with its economies and efficiencies of service and management became apparent. Attempts were made from 1925 on to merge the railways but the objections of security holders, fearing the relative value of their holdings would not be protected, deadlocked proceedings until eventual receivership and bankruptcy of the principal companies enabled these claims to be wiped out. Finally, on July 2, 1930 agents for Midland United, an Insull holding company, purchased the Union Traction Company of Indiana at foreclosure, beginning the separation of power from railway operation and founding the Indiana Railroad. Here we deal only with the Indiana Railroad and the Indiana Railroad System from that date to the closing of forms, late in August 1940, for this bulletin; the story of the underlying companies prior to 1930 is reserved for future study.

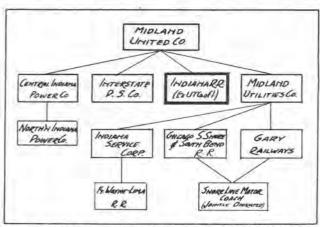
As to equipment, there followed after the organization of the new company, some interval before a rolling stock roster could be stabilized by the acquisition of new cars and the retirement of old, to meet new requirements, and during this period most all of the equipment of the old roads was in existence on Indiana Railroad lines. For clarity then, this bulletin deals only with equipment in service on the Indiana Railroad System after 1934.

DATE	Indols-Muncie-Ft Wayne	Mincle - Newcastle	Indianapolis-Seymour	Indpls - Terre Haute	Seymour - Louisville	Indpls-Peru-Ft Wayne	Indols - Newcastle	Newcastle-Richmond	Richmond - Dayton, O.	Ft Wayne-Wat'oo-K'dvle,	Marion - Frankfort	Anderson - Marion	Peru - Lafayette	Terre Haute-Paris, Ill.	Indols - Dunreith	Marton-Bluffton	Tipton-Alexandria	TOTAL SYSTEM MILEACE
Miles:	123	19	62	72	55	135	45	39	40	42	53	34	55	22	39	32	20	887
9-28-30	x	x	x		x	x	x			x	х	x	x			x	x	675
6-30-31	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x		827
8-16-31	x	x	x	x	x	x	x	X		X	x	x	x	x	x			798
1-5-32	x	X	x	x	x	x	x	x		x	x	x	x	X				756
1-26-32	x	x	x	x	x	x	x	x		X	x	x	x					734
5-22-32	x	x	x	x	X	x	x	X		x	x	X						679
7-1 -32	X	x	X	x	x	X	x	x		x								592
B -9 -36	x	x	X	X	X	X	X	X	X	x								632
3-15-37	X	x	X	X	x	x	x	X	x									590
5-9-37	X	x	I	x	X	x												466
9-11-38	X	x	X	x	x													331
11-1-39	x	X	X	x														275
1-11-40	X	x	x															204

Marion-Wabash, 20 mi.; Kokomo-Logansport, 20 mi; and Muncie-Portland, 32 mi. were abandoned Sept. 15, 1930, prior to Indiana R.R. system operation but under the ownership of Indiana R.R. Short branches were abandoned: Watson Jct.-Charlestown in spring of 1933, Jeffersonville-New Albany in spring of 1934.



HISTORY: (1930-1940) On July 2, 1930. A. W. Brady, Receiver, sold the Union Traction Company of Indiana to the Indiana Railroad and after a few months arrangements were made for the general supervision under a system management of the interurban railroad properties of the



RELATION BETWEEN INDIANA UTILITIES IN 1931

three affiliated Midland United companies, the Indiana Service Corporation, the Northern Indiana Power Company, and the Interstate Public Service Company (reorganized at this time as the Public Service Co. of Indiana). Before Indiana Railroad took over active operation the abandonment of three short unproductive branches of the Union Traction was effected. Then came the coordination of management with Henry Bucher as General Manager and L. M. Brown as General Superintendent of Interurban Lines.

The biggest change took place when on June 23, 1931, Midland United purchased thru Elmer Stout, Receiver, the Terre Hante Indianapolis & Eastern Traction Company and on January 1, 1932 subleased the power facilities to utility companies and the railway lines became Indiana R. R. This added about 175 miles of route, but piecemeal abandonments of weak branches up to the middle of

1932 brought the system down to a solid 600 miles of main stem. With this network the company rolled its trains right thru the worst depression years and, with the short spurt in business in 1936, it actually expanded by purchasing, for junk, the Dayton & Western Traction Company line from P. A. Hommel, Receiver, rehabilitating the road sufficiently to withstand the operation of fast heavy cars. But this is a little ahead of the story.

The real story of interurbans in Indiana goes back into the 1890s when the discovery of natural gas wells in a number of locations in central Indiana laid the way for a boom in manufacturing in relatively small towns in a predominantly rural region. Members of farming families could get work in the mills at Anderson, Elwood, Gas City, etc., but could live at home, riding to and from work on the Interurban. In fact, the "Interurban" was practically invented in Indiana by the Jim Hill of the traction industry, Charles L. Henry, who coined the name for his.line from Alexandria to Anderson. For a time cheap fuel and labor and good rail connections drew industries to Indiana and the interurbans, primarily passenger carrying railways, thrived on it. But two developments followed the advent of the 1920s to the detriment of the interurban railway. First, the natural gas supplies became exhausted, shutting off the sources of cheap fuel. Next came that ever present factor in electric railway history, the automobile and the hard road.

Indiana at first lagged behind other states in the development of a good network of hard roads, altho one of the earliest autos was made in Kokomo. This favored the interurban for a while. Many of the small man ufacturing plants took up the building of automobile parts and accessories, vtilizing low labor and overhead costs; this too favored the interurban. Eventually, however, beginning particularly about 1925, the model T and other low-priced cars began to worm their way into the particular field of the interurban -- hauling workers and farmers to and from markets, shopping centers and mills, and the more elaborate cars began to appeal to the traveling men with their customary heavy and bulky sample cases, tapping off another lucrative source of interurban traffic. Then the interurbans began to look toward the development of freight business to offset the drop in passenger movements but handicaps appeared at once. In building, it seems one of the big advantages of electric operation was that you could put all manner of difficulties in the way -- grades, street operation, sharp curves, and still run quite freely over them and with light rails and bridges at that. WITH SHORT LIGHT PASSENGER TRAINS. But moving long freight trains, particularly with equipment of the types standard on the steam railroads for interchange, was another thing altogether, and now that the companies needed these "hazards" removed so urgently they had little capital with which to make such changes. Net result: interchange freight in almost all cases was shut out except over restricted sections of line, and all freight had to be less than carload lots, or if carload, it had to be trans-shipped into the interurban companies! freight cars, at the expense of handling and important hours of time in transit. Despite these handicaps the men of Midland United saw in the Indiana Railroad the possibilities of an electric railway system that would match, or even outdo, the fine railroad they had just made of the Chicago South Shore & South Bend Railroad and a year or two sooner of the Chicago North Shore & Milwaukee Railroad and the Chicago Aurora & Elgin Railroad. New passenger cars, substations, freight cars, enlarged terminals, reduced grades and curves, belt lines and revised routing, heavy rail, double tracks in some places and all the other refinements that make an ideal road were in the plans, but only the first two points and slightly the third came to pass. Possibly, if they'd had a few more years start on old man depression -- well, who knows? As it was, when mills, factories and banks began to shut down, a property so close to the pulse of the public could hardly stand off unaffected, and on June 28, 1933, Bowman Elder was named Receiver of

#### INDIANA RAILROAD SYSTEM



Indiana Railroad by the courts, altho the other three utilities whose railroads comprised the system weathered the storm without reorganization, due to the strength of their power business, constantly growing thru rural electrification.

After receivership, conservation of assets was of prime importance but this did not prevent the Receiver from making numerous improvements to line, equipment and service (as described in the technical data) and as general business conditions improved in 1935-36 the interurban staged a brilliant comeback, winding up the latter year with actually a net income. Then came a turning point, and from 1937 to date the story is one of recession with an obvious trend to the cessation of all interurban rail service of the system. In 1937 a period of labor strife fell over the country in general but particularly on a number of Indiana towns served by the system. This was the result of an overpowering growth of unionism upon an unprepared set of managers in the various industries effected, causing a considerable slowdown in commercial output in the area. The Railroad itself had a strike on its hands, called by employes of the obsolete 25 cycle generating plant at Anderson and backed up by the only recently established Amalgamated union of shop workers, city train and busmen, and some of the interurban trainmen. Shutdown of this power plant tied up those portions of the road served by 25 cycle a-c supply, and while, at the end of the strike, the Amalgamated boys got some well earned raises, the excessive cost of operating the 25 cycle plant became unbearable and it had to be shut down. Increased costs in the face of traffic dwindling in the recession period put the marginal Richmond-Dayton line up for abandonment, and when this line was pulled the Anderson line could be changed to 60 cycle with relatively few substations to replace and the Anderson power plant was closed.

Up to this point the Indiana Railroad was entirely a railroad enterprise, having disposed of all bus operation handed to it by predecessors except suburban service at Indianapolis, and while it was one of the first to have its own trucks, they were entirely in free pick up and delivery service feeding to the railroad in 1cl business. In 1938, however, the company evidently began to see that a definite change was again taking place in the territory served, a change that was pushing away some small industries, centralizing others with workers nearby and in general tending to put a permanent decrease in the volume of traffic, a decrease that would make rail operation that had been marginal even in the '36 boom definitely unprofitable and a loss that power and holding companies could no longer stand behind. Rather than go out of business entirely with almost a thousand employes and officers, it was decided to take the unwilling step to buses and trucks. The Peru line, weakest of those remaining, was chosen for the test, and following this, motor operations were extended as rails came out until at this date only two lines remain. At that, this is still a full quarter of the maximum mileage operated by the system.

ROAD & STRUCTURES: Because of its composite makeup the Indiana Railroad System had almost every variety of interurban construction represented. The Indianapolis-Terre Haute line, for example, even the it came to IR from a single company contained the three principal styles of readway - adjacent to steam railroad (Indianapolis-Greencastle), cross country with heavy cut and fill (Greencastle-Brazil) and side-of-the-county-road, crossing from one side to the other of the pike, running in the center of the road thru towns and with almost no cuts or fills despite the rough "Highland" terrain (Brazil-Terre Haute). In general, however, most of the lines were of the first type, running across country, parallel to existing steam lines, single track with passing sidings of 5 or 6 car average capacity at intervals of about 2 miles. Running rail varied from 50 lb. to a little 100 lb. with the majority 70 lb. and most of the lines were ballasted with gravel or cinders, althe a few miles had crushed rock. In later years weeds began to flourish on the once perfectly clean readbeds, but while not so attractive in appearance these weeds certainly kept down the dust!

Track circuit block signals were quite extensively used on the principal lines, but none seems to have ever been completely protected from end to end, altho all treacherous spots were signaled. Trolley contactor signals were used only in a few city locations, as were 2 or 3 hand operated signals. Crossing protection at minor crossings consisted of the standard cross-buck but in recent years a number of standard flashing signals were put in at busy roads, and there was one installation of automatic gates, at Rose Polytechnic crossing on the Terre Haute division.



INDIANAPOLIS TERMINAL - 1934

Bridges and viaducts were substantially built, especially on the Union Traction lines, and were capable of handling the heaviest interchange equipment. Station buildings on most divisions were small frame structures, not very attractive. In exception of this, the Union Traction had large buildings, usually brick, at all the principal towns and spacious frame stations served the small towns. After the one-man plan of operation, with its concise fare register accounting, became general the large waiting room terminals were disposed of and agencies discontinued in some smaller towns.

Most interesting terminal on the system, and probably anywhere, is Indianapolis Traction Terminal. Built in 1904 to accomodate the trains of 12 routes, the station had 9 tracks under a huge trainshed half a block from the state Capitol; train departures here were in the hundreds daily for years. Now only

two tracks are in use, the remainder having been paved over for use of busses. Other points with trainshed passenger stations are (or were) Muncie, Seymour, Louisville and Frankfort. Spacious open terminals were maintained at Terre Haute and (still in) at Fort Wayne. (See: Freight Traffic)

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POWER & LINE: The present lines of the Indiana Railroad System are operated on purchased 60 cycle power fed in to the substations by transmission lines on the railroad's line There are a number of automatic substations, installed since the advent of Indiana Railroad, of both rotary converter and mercury arc rectifier types, but the majority of stations are manually operated, usually with a single 300 or 500 kw rotary, located so that the operator can have additional duties in station or shop work. The most modern substation equipment is exemplified by the Bucy and Pendleton rectifier stations, placed in service in the summer of 1931. These are Brown-Boveri units rated at 850 kw at 625 volts continuously, or 1275 kw for overloads up to 2 minutes in duration. Originally these stations were on the 33 kv 25 cycle line fed from Anderson power plant, but when this plant was closed in 1937 they were changed over to 60 cycle service by reconnecting the transformers. The primary leads are protected by expulsion fuses instead of oil switches and the over current trip and multipole carbon breaker is placed between the transformers and the rectifier. Protection is provided against sudden overload, continuous overload, reverse current, low vacuum, excessive temperature, water failure and undervoltage. In case the DC feeder breakers are tripped out by overload a reclosing relay makes 3 attempts to close in and if the line is not clear on the third attempt it locks out the station until manual help can be summoned. A nearby deep well furnishes water for cooling.

Line construction at present and on the former lines as well was standard, using 4/0 grooved trolley wire with parallel feeder as required by load conditions. Direct suspension was used universally, except on the Dayton & Western Traction line which had a light simple catenary. Bracket suspension from poles on 100 ft. centers is the rule altho some span wire construction is in use, chiefly between Indianapolis and Anderson, and on curves.

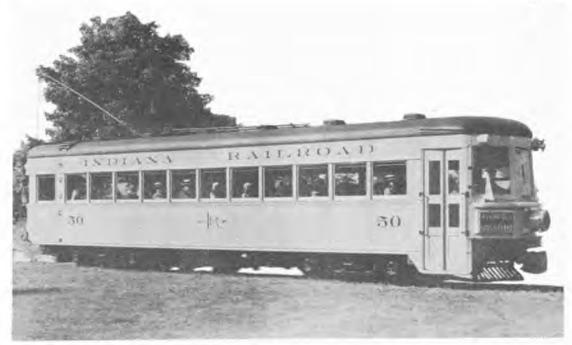
ROLLING STOCK: During the first 4 years of the Indiana Railroad System the variety of equipment in use in passenger operation is overwhelming. The equipment of the underlying companies was largely comprised of various wooden cars, most with reinforced underframes and many with steel sheathing that improved appearance but added little to the strength of the car. These wooden cars were 20 years and more in age and entirely obsolete on a modern railroad. The Interstate and the Indiana Service each had a few steel cars of heavy or medium weight and the Union Traction had about 25 heavy steel cars; all of these were suited to continued service, but the company decided that the new vehicles it must order should be of a radically different and improved type that would offer a real inducement to "Ride Interurban" in preference to other modes of travel.

Thirty five luxurious electric rail coaches were delivered in the late summer of 1931 "to mark a new era in electric railway transportation for Hoosierland." These cars, together with substations, represented an expenditure of \$1,450,000 toward giving the public a fine modern railway system. A few lines quoted from "HOOSIER TRAVELER" Number 1 (and the last), issued late in 1931 when the cars which immediately became known as "the high speeds", went into fast service, describe them in the glowing but in this case not exaggerated words of the publicity man:

Answering the modern demand for quick, safe transportation, the 35 new deluxe cars have been equipped with specially designed and constructed motors capable of driving them at speeds of 70 miles an hour and more. In addition to the powerful motors, a streamlined exterior with rounded contours reduces wind resistance and adds to the speed of the cars.







They have a remarkably rapid pickup after a stop and soon reach full speed. After long research and experiment, the new cars have been equipped with a number of safety devices designed to insure safe travel at increased speed. A new type air brake (Ed: M-33 engineer's valve, self lapping type) with double shoes clasping both sides of each wheel has been used. In addition each car has a system of electro-magnetic brakes, which create a magnetic field between a special shoe and the rails, thus adding to the certainty of control. (Ed: Mag brakes lowered to rail by air, raised by spring.)

The cars have an extremely low center of gravity. The main body of the car is built of sturdy, light aluminum alloys, having great tensile strength. The powerful, high speed motors are set close to the ground between specially constructed trucks, designed to eliminate much of the side sway as the car travels...

No detail has been overlooked in a determined effort to make these cars express the utmost in travel comfort, attractiveness and beauty. Fourteen of the cars are equipped with a special observation-lounge compartment occupying the rear third of the car space. This type of car will be used on the Hoosierland Flyers between Indianapolis and Ft. Wayne and on the Dixle and Hoosier Flyers between Indianapolis and Louisville. The observation compartments will be available to all passengers without extra charge...

Thick carpeting covers the floor. The pattern of the carpet blends artistically with the two-tone shading of the walls and ceiling, which varies in each car to complete an attractive, modernistic color scheme... In the coach compartments of both the observation-lounge and standard cars are individual easy seats of air-cushioned leather. Headrests on each chair and arm rests at the sides assure complete relaxation... In the summer electric fans furnish cooling breezes. In the winter the cars are heated by electricity.. Lights on all these cars operate independently of the trolley, and do not fluctuate with trolley current. (Ed: A 32 volt battery, charged by a motor generator set, provides lighting energy.) ...

The investment of such large sums implies a substantial faith in the future of the territory served by the lines between Ft. Wayne, Indianapolis and Louisville. Officials of the company feel that the public needs and desires this type of fast, economical transportation and it is their aim to furnish it... (End of quotation)

Additional data on these cars will be found in the roster notes and drawing.

With the advent of the high-speeds and abandonments of some of the lighter lines, the wooden equipment could all be retired, and the heavy steel cars equipped the lines not using high-speeds. In 1935 the company secured the railway-post-office contracts abandoned by the Nickel Plate Road between Peru and Indianapolis and between Ft. Wayne and Newcastle, and for this service three of the ISC steel cars were revamped with the standard 15 ft. RPO compartment. In 1936 all suitable heavy steel cars were rebuilt for one-man operation, the changes involving turning about, installation of safety devices and Ohmer register, and general reconditioning. At this point the orange color scheme was made standard on all cars.

In 1935 the ten former Northern Indiana Railway light weight cars were placed in service on the Ft. Wayne via Peru run, and later they were used on the Richmond - Dayton run out of Indianapolis, but they proved out the best in suburban service on the Ft. Harrison and on the Muncie-Newcastle runs.

The balancing speed of the high-speed cars with field taps is 83 mph., without taps 72 mph., and the gear ratio 24:43. The balancing speed of the heavy cars, as exemplified by the typical 427-441 series, was 60 mph., and the gear ratio 26:51.

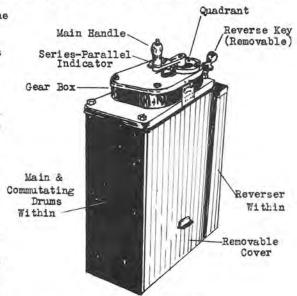


With regard to freight equipment, the wide variety of types of the underlying companies is very well represented in the Indiana Railroad roster. In 1935 a joint roster in a continuous series of numbers beginning at 700, a series established by the Union Traction Company, was laid

out, and all motor freight, work and line service cars were assigned places in the roster. One by one as the cars care into the shops for repairs they were overhauled, repainted and renumbered.

The typical Indiana Railroad freight motor has four motor equipment of 100-125 hp. motors geared 16:61 giving a top speed of 40-45 mph. light, or 30-35 mph. with two to four trailers. In recent years the tendency has been to HL remote control, altho this is not arranged for multiple unit operation. The most interesting controller on the lines is the L4 type, one of the earliest and most substantial types of platform controllers built for heavy duty, and very commonly used on the Indiana Railroad for freight and work motors. It will be noted in the roster that most equipments of this type came from the Union Traction, where they were taken from the original passenger cars.

The IA, colloquially known as a "coffee-grinder", contains within a spacious box all the necessary drums and segments for cutting in and out of motor resistance. It differs from K controllers in that a separate drum is used for resistance control than for commutating (series-parallel changeover). On top of the controller there is a gear and motion box driven by the main handle to operate these drums

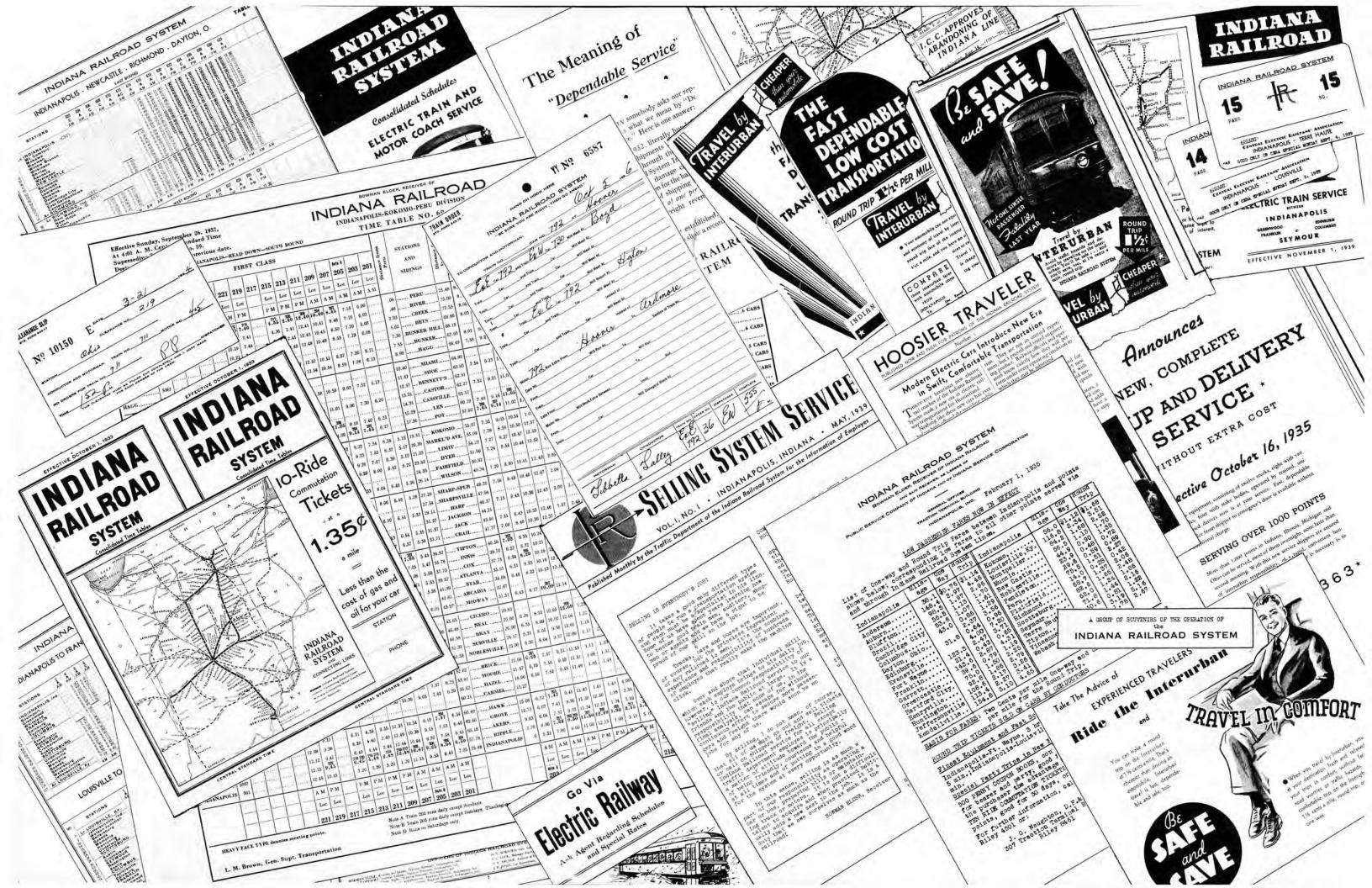


THE L-4 CONTROLLER

in proper sequence. The reverser is operated by a sizeable key, and is in a cabinet on one side of the main controller. In operation, the main handle is revolved \( \frac{1}{2} \) turn to reach full series, the next \( \frac{1}{2} \) turn reverses the main drum back to open circuit of all motors, then a third \( \frac{1}{2} \) turn cuts resistance out again to full parallel. To shut off, the handle is revolved a fourth \( \frac{1}{2} \) turn which cuts resistance back in and finally opens the circuit, bringing the controller back to the starting condition. An indicator on the cover plate shows whether the controller is in the series or parallel position. Operation is flexible, altho it calls for some elbow grease, but the handle may be revolved in either direction as desired. Protection is provided by an overhead circuit breaker, and to avoid burning of control fingers when shutting off under accelerating loads the usual practice is to trip out the breaker mammally, then shut off the controller.

In addition to the freight motors, most of which could be used for lading, the system had several hundred freight trail cars (not suitable for steam road interchange, but readily interchanged with Ohio interurbans) of practically every type, side and center dump, gondola, box, express and live stock. These cars had radial drawbars and interurban standard devices.







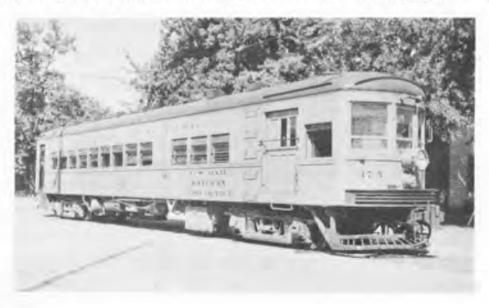
TRAIN OPERATION: Since the majority of all trackage of the Indiana Railroad System is and was single track a rigid system of train operation has been enforced from the start. Some of the underlying companies, early in their experience, in trying to simplify the knowledge requirements of their trainmen, had terrible wrecks at least partially the consequence of this laxity. Anxious that this should never be the case on the Indiana Railroad a rule book practically equivalent to the standard code used on steam lines was adopted. Because of the added responsibilities attendant on one man operation all classes of trains other than first class and extra were abolished as was superiority by direction. The latter, in rule form, reads: "All scheduled trains of same class or sections of scheduled trains have equal rights to schedule meeting points." In addition, all meet orders are given to fixed points, right or wait orders not being used. Extra trains are sometimes sent on the road with a "run extra" order, but in order to expedite their movements and to further protect them, especially if passenger moves, meet orders are generally issued against first class trains. Another rule, illustrating the safety precautions taken, is: "Dispatcher will issue train orders to all trains operating only on Saturdays, Sundays and Holidays, and opposing trains, specifying the meeting points." To save time in taking orders a special form of train order and clearance is used.

The first one man operation on the Indiana Railroad System was on the Marion & Bluffton division, where cars 201-202 (not in IR roster), Cummings light-weights, were in use. After the advent of the high-speeds with their Ohmer accounting fare registers, one man operation under rapid and frequent loading became practical and in 1936 the heavy cars were converted to one man. This made all passenger operation, with the exception of the Railway Post Office-passenger trains, one man. Freight trains continued under the two man plan, with a brakeman in addition where trains were regularly long, but it was found practical to operate line cars with a single trainman, with the line crew available if needed to protect.

PASSENGER SERVICE: The Indiana Railroad System has had operating experience with almost every type of passenger service. Up to December, 1930, parlor-dining cars were operated (1) on the Indianapolis-Muncie-Ft. Wayne run, using ex-Union Traction cars "Indiana" and "Purdue", (2) on the Indianapolis-Peru-Ft. Wayne run, using Indiana Service Corporation cars 390 "Little Turtle" and 391 "Anthony Wayne", and (3) on the Indianapolis-Louisville run, using the 5 Interstate Public Service cars 158-162. Luxurious steel sleeping cars, 10 section, with windows in uppers, were operated between Indianapolis and Louisville till late in 1932, using Interstate cars 166, "Indianapolis", 167 "Scottsburg" and 168 "Louisville".

The introduction in September, 1931 of the high speed cars brought experience with fast limited trains, with practically a 40 mph. schedule speed between terminals. This meant long country stretches at better than 60 mph. average in order to compensate for urban running at 15 mph. But the limited train has always been a problem to the interurban line whose principal business is the short haul rural passenger. The irregular passenger frequently attempts to flag down a limited at a country stop only to have it roar by leaving him bewildered and angry at the thought of waiting perhaps an hour or two for the next car, and, lacking a time table, he wonders if the next one will stop either. Of course, destination signs and publicity were supposed to alleviate this condition, but in practice the best plan is to provide enough slack in the schedule to permit making a number of extra local stops on all trains and relying on diversity of chance that each train will be called upon to make not more than that number of flagdowns. With this in view schedules have been altered so that instead of some slow and some fast trains, all passenger trains now average about 35 mph.

As to equipment assignments, the high speeds were used on the Indianapolis-Ft. Wayne via Muncie and the Indianapolis-Louisville runs, the 90s were first on the Ft. Wayne via Peru, later on Dayton and finally on Ft. Harrison and Muncie-Newcastle runs, 323-327 were used on lines north of Ft. Wayne, 375-377 on the RPO runs and the heavy rebuilts on all remaining passenger runs.





#### LOADING PLATFORM

NI	TERRE HAUTE SLOW TRAILER	GREENCASTLE TRAILER	BRAZIL FRAILER	MOTOR	TRAILER	TRAILER	NOBLESVILLE TRAILER
1	DAYTON THRU MOTOR	TRAILER	TRAILER (C. EL F)	NEWCASTLE FRAILER	TRAILER	DAYTON TRAILER	TRAILER
4	LOUIS VILLE MOTOR	TRAILER	LOUISVILLE TRANSFER TRAILER	TRAILER	SEYMOUR TRAILER	THAILER	PERME HAUTE
	CANNON BALL	TRAILER (C. FLE)	PERU TRANSFER THAILER	PERU			HUNTINGTON TRAILER

INDIANAPOLIS FREIGHT HOUSE 530 KENTUCKY AVENUE

THE SKETCH ABOVE DEPICTS A TYPICAL DAILY LINEUP OF FREIGHT (BOX) TRAILERS AND MOTORS AT THE TRANSFER PLATFORM OF THE INDIANAPOLIS FREIGHT HOUSE, AS IT LOOKED IN THE SUMMER OF 1937. BLANK BLOCKS INDICATE SPARE CAR SPACES AVAILABLE FOR EXTRA HEAVY LOADS WHICH MIGHT DEVELOP DURING THE DAY. ABOUT 8 PM THE PERU, DAYTON AND LOUISVILLE THRU FREIGHTS DEPARTED, IN THAT ORDER, TO MAKE WAY FOR THE NIGHT LINEUP.

These were, of course, the normal assignments, and occasionally for short periods and on extra moves the various types of equipment got all over the system.

Passenger fares started out in 1930 at 3 a mile one way and 2.74 round trip, and commutation rates lowering this somewhat. In 1933 these were drastically cut to 24 one way and 1.54 round trip, with 10 rides at 1.354 and a 500 penny mileage book at \$3.75. This rate remained in effect until the fall of 1938 when falling volume of traffic brought a need for increased unit-revenue and the round trip rate was raised to 1.84 and the 10 ride rate to 1.674. The latest wrinkle to induce off-peak riding is a series of low mid-week excursion fares, good only Tuesday, Wednesday and Thursday from outlying cities to Indianapolis. This rate is in most cases a little less than the early 1.56 rate.

FREIGHT SERVICE: To understand fully the picture of freight operation of the Indiana Railroad System one must bear in mind the numerous electric railway track connections to the lines of the system that existed in the first few years of its history. Thru Richmond and Dayton, connection was made with the Dayton & Troy, Cincinnati & Lake Erie and the Dayton Springfield & Xenia to other Chio electric lines. Thru Ft. Wayne and Lima connection was made to the Cincinnati & Lake Erie, and Western Chio lines to the network of interurbans in northern Chio. Other important connections were at Peru with the Winona Railroad for Goshen and beyond, and at Indianapolis with the Indianapolis & South Eastern Railroad for Connersville and Greensburg. Most of these lines, lacking the capital for modernization such as was planned by the Indiana Railroad System, were liquidated about 1932 and the last of the others quit in 1938, thus spelling the end of car interchange which at the start had furnished outlets to Detroit, Cleveland, Columbus, Cincinnati, Toledo, Akron, South Bend and many hundreds of other points in Indiana, Ohio and Michigan.

Carload interchange with steam roads was limited to a very few stretches of the system, mainly between the larger towns, where sharp curves and limited clearances did not prevent steam road cars free access. LCL interchange on through rate arrangements was effected with a number of trunk line railroads via Peru, Ft. Wayne, Huntington, Richmond, Indianacolis, Greencastle, Terre Haute, and via Louisville to all lines south of the Ohio River. LCL traffic constituted the greater portion of all freight activity on the Indiana Railroad System and focal point of this traffic was (and is) the spacious Kentucky Avenue Freight House at Indianapolis. This mammoth development was built in 1926 to accommodate all of the lines then operating into the city, but with the consolidation economies of space were effected and a part of the terminal turned over to trucking lines. The System then had a freight house building 30' x 928' with a granite block driveway to the north and 5 loading tracks immediately adjacent to the south, and in addition team, storage and run-around tracks. Of the building, 12000 sq. ft. of floor space were given over to LCL transfer space, the remainder to freight office, stationery storeroom, accounting department office, and garage space. The typical daily lineup of box cars for loading in 1937 included 28 cars, each with a definite destination. motor cars were generally loaded with freight for transfer to connecting lines or with way freight, while trailers were loaded not to break bulk until in the freight house at destination. There was also a station at 19th & Martindale, in the north side industrial area of Indianapolis, and of course, large terminals for freight handling at each of the principal cities served. The most modern of these freight houses were built at Ft. Wayne and Louisville.

LCL business was stimulated when, on October 16, 1935, the company began free pick and delivery service with 12 trucks at Indianapolis, the first to have this service, later extended to other key cities.

Another freight service, still operated, is the Dispatch & COD Freight, essentially an express operation, for package and small freight shipments. This is handled in the baggage compartments of regular passenger trains and gives speedy delivery between passenger stations.



A day's operation at Indianapolis really began in the afternoon as LCL shipments made up during the day were brought to the freight house by company or shippers' drays. Meantime a switching crew prepared the lineup of equipment for the day, using double door cars where extra large shipments could be expected, and the proper motor cars to handle the trains. Then the truckers loaded the cars with the proper merchandise and the shipping orders were forwarded up stairs to the office for waybill preparation. The first car to leave the lineup was the Terre Haute fast trailer, an express car with passenger car trucks, picked up by a regular westbound passenger car in the early evening. This car was loaded with Terre Haute Transfer freight, destined for points in western Indiana and Illinois, to be transfered immediately on arrival at Terre Haute to trucks and railroads for delivery early the following morning. At about 7 o'clock the loading of thru freights to Ft. Wayne via Peru, to Louisville and to Dayton was closed, and as soon as the waybills could be pouched these trains were ready to depart. The motor car at the head of each of these trains picked up its trailers and left the Terminal. Some of the cars in these trains contained transfer, which like that for Terre Haute must be transhipped during the night and delivered early the following morning, and to give the transfer point agents a head start in their paper work, the waybills for these cars were sent ahead on passenger trains. Then followed a hull at the freight house until about midnight when the way freights, starting from outlying points about sundown, began to arrive. A night lineup was made with these cars and a furious period of transfer followed so that these way freights could turn about and start for their terminals with transfered freight at about 3 am. Then quiet until morning when the thru freight trains returned, with freight, principally for Indianapolis and Indianapolis Connections, to be shifted into the drays of the railroad or of consignees, thus closing the day's cycle.

FORT WAYNE - LIMA RAILROAD: The 64 mile line from Ft. Wayne to Lima, Ohio was operated for its
Receivers by the Indiana Service Corporation, and was subject to the supervision of
the same officers as of the Indiana Railroad System, and while coordinated as to service and policies
with the system, it remained a separate entity up to its abandonment, June 30, 1932.

SUMMARY:

In the gradual shrinking of the Indiana Railroad System rail operations the railfan can find no satisfaction, for here was a system that had a little of everything that makes railfans. Still, in view of the circumstances, it would seem that the company has made every effort available to its limited means consistent with reasonable judgment to retain rail operation. Another quotation from "Hoosier Traveler" July, 1931 illustrates the company's viewpoint at that time:

"Officials of the company feel that the public needs and desires this type of fast economical transportation and it is their aim to furnish it. The active support and patronage of the public along these lines will make it possible to maintain, and from time to time expand, the excellent service now being introduced.

"Service on some lines forming a portion of the Indiana Railroad System has been discontinued, a step made necessary by lack of patronage from the various towns through which the interurbans operated. The lines between Indianapolis, Louisville and Fort Wayne and other main lines connecting principal cities of the statue will be continued, developed to the utmost and operated for so long as they continue to receive the whole hearted support from the communities they serve."

In view of this quite definite statement of policy at the beginning, the Indiana Railroad has apparently lived up to the letter and spirit of its promises and, while its life may not be long as judged by commercial enterprise, it is certainly full and treasured in the memory of every railfan who has had contact with it.

> BULLETIN 17 - INDIANA RAILROAD SYSTEM - SEPTEMBER 1940 ISSUED BY CENTRAL ELECTRIC RAILFANS! ASSOCIATION (Inc.)





### PHOTOGRAPHS:

Page 4: Indianapolis Traction Terminal in 1934 ... R. V. Mehlenbeck

5: Interior of Lounge Compartment, cars 50-61 - Showing accommodations available to passengers at no extra cost.

... Indiana Railroad

6: The Finest Cars Ever Built for Pure Interurban Service.

... Indiana Railroad

7: Typical Box Motor Freight Car. ... Glenn Niceley

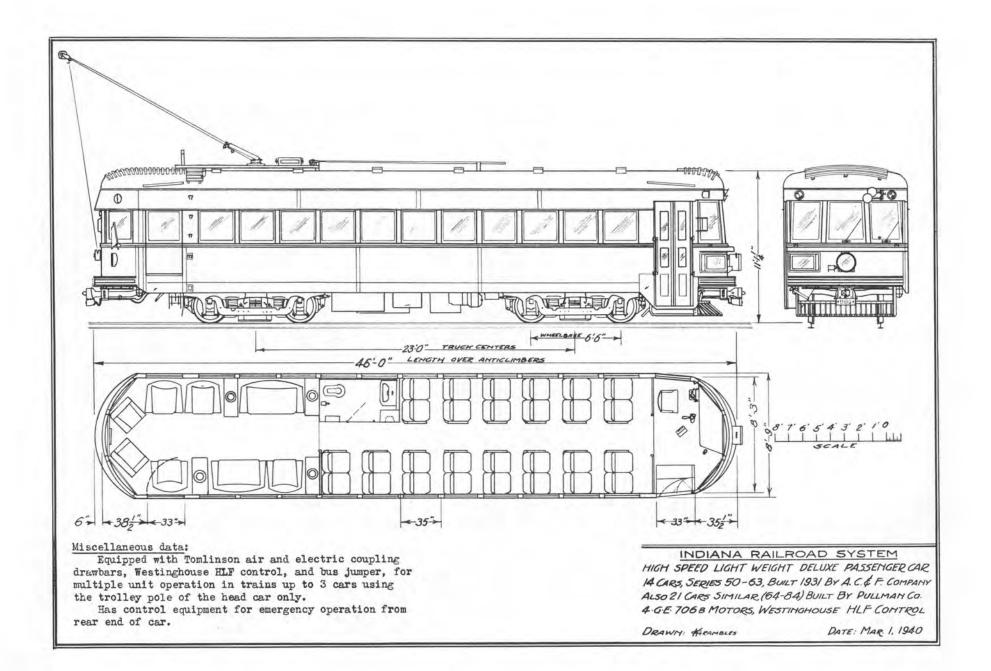
10: Railway Post Office-Passenger Car. ... Harry Zillmer Cartography: ... Frank E. Butts

Roster of Equipment, and Reference Notes: ... James F. Cook
Indianapolis Freight House Lineup, Page 7: Glenn Niceley & R. Konsbruck
Edited by, and Pen & Ink Sketches: ... George Krambles
Editorial Assistants: Theo. A. Kawol, Howard Odinius & Robt. Konsbruck

While credit is given above to a few who contributed directly to the makeup of Bulletin 17, lack of space prevents acknowledgments to the many railfans who suggested valuable ideas used in the work, and to the various people of the Indiana Railroad System, particularly the Publicity, Transportation and Shop Departments, without whose help so complete a story could not have been written.

Duplicate copies of this Bulletin may be obtained from the Association at 25¢ per copy, at 1240 Edison Building, Chicago.

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(1) JMBERS	(2) TYPE CAR	EUILT (3)	(4) BY	(5) WAS	(6) TRUCK	(7) 1:OTORS	(B) CONTROL	(9) WEIGHT	(10) CAP'Y	(11) RETIRED	(12) REMARKS
NDIANA JRDUE	Parlor-Obs.	1921	J	U-316 U-315	Baldwin	Trail	none	52,000	34	10-1936	Note A
0-54	Coach-lounge	1931	4	New	Cmnwlth	GE-706b	W-HLF	52,000 52,000	34 38	10-1936	Note B
55 5-61	All lounge Coach-lounge	1931	11	#	4		11	52,000 52,000	24 38		" B,
2-63 4-84	Coach-bagg.	.B	P	H.	u n		11	52,000	40		н В, С и В
0-99	W B	1930	c	N-350 to 359	C	W-516a3	W-K75f	52,200 42,500	40 50	1-1940	" D
L-306	Coach	1905	J	PS	Peckham	Trail	none	54,000	40	1939	H E
3-326 327	Coach-bagg.	1923 1917	S	I	Cmnwlth	GE-275	GE-K35	60,000	48	1937 1937	Note F
0-408 7-441		1913	C1 S	n n	Baldwin Standard	W-303 W-333vd	W-HL	85,600 90,300	45	9-1936 1-1940	H G
445		1913 1923	J C1	n n	Baldwin	W-333	W-HL	85,600	44	1938	Note H
0 <del>-456</del>		1919	Ci	PS-150	и	18		82,900 103,520	44	1938 1938	" J
7-458	н н	1926	s	to 157 I-378 & 379	34	н	н	101,000	50	1937 1938	
5-377	Coach-RPO	1926	s	ı	Baldwin	W-333vd	W-HL	101,000	28	2300	
00	Box Motor	1924	In	U COS	Baldwin	W-303	I4	68,400	40	1938	Note K
01 -704	it it	1904 1924	Ci In	U-605	H H	W-85 W-303	Ü	69,000	30 40	1937 1939	" K,L
05	16 16 16	1905 1903	B	T-154 T-126	Standard	W-333 W-303	W-HL GE-K64	75,100 81,300	15 15	1939	n K
07 08	H H	1907	Ci	T-131	Baldwin	GE-254A	W-HI.	78,560	20	1937	n K
09	11 11	1907 1903	C1 J	T-132 T-150	Standard	W-303 W-323vd	W-HI.	76,400 78,900	20		n K
10	H H	1932	R	New PS-427	Brill		0	87,600 69,400	20	1940	" M, E
12		1924	A	PS-476 PS-477	Baldwin A	GE-254a	W-HL	84,600 81,920		20.00	" N,O
14	D #	11	A	PS-478	A	м		103,400	-		" N,O
-717			Α	PS-432 to 434	A	W-333v8		88,700	32		" N.Q
18	N N	1910	C1 N2	T-136 PS-422	Standard Baldwin	W-303 GE-205a	# GE-K64	78,000 66,460	20	1938 1939	" N,R
20	Stock motor Bex-motor	1907	Ni	PS-424 PS-425	11	GE-205a	102	66,000	20	1939	" K
22	n n	1005		PS-426		GE-205a	GE-K64	74,240	22	1939	" N,U
23 34	9 . 11	1906	Ci Ci	U-601 U-610	Standard	W-303 W-303	14 14	68,400 58,000	30 30	1938 1938	" K, V
727	H H	1900	SQ	U-612 I-845-6	Baldwin "	# GE−205Ъ	L4 W-HL	58,000 79,000	30 30	1938	" K,W
28	и и	1910 1905	Ci Ci	I-847 I-852	Curtis	GE-205e	IA	80,200	30	1938	" K,X
50	6 H	1924	Q	I-853	Baldwin	GE-205b	W-HL	74,700 80,800	30 30	1939	" N,Z
-732 33		1907	Ci	I-854-5 I-856	Curtis	W-303	IA IA	74,400 80,200	50 40	1938 1938	M K, B
736	n n	1910 1917	C1 S	I-857 I-858-9	Baldwin	GE-205b	IA WHL	80,200	40	1939	" K,C
7	n b		D	D-796	**	W-333vd	W-HL	75,000 83,700	30 30	(735-1938)	" K, D
58 50	Locomotive	1923 1939	R	PS-161 PS-605	Standard	GE-254 W-303	W-HL	82,200 108,900	40		M N.F
1 2		1923 1920	T	PS-606 T-192	Baldwin Standard	W-562d5 W-333vd	W-HLF	100,000			u N
3	10	1927	T	T-196	Brandard	11	n	86,530 89,800			n N
4	Line motor	1919	J	L-402 U-238	Baldwin	GE-205	W-HL GE-K34d	79,700 55,000		1939 1938	" N
1 2	H H	1913	T	T-177 T-190	Peckham	GE-73	See Note K-35	50,000 50,000		Before 1938 1940	" N, G
3	H H	1902	s	T-191 I-823	Baldwin	W-303	K-34d	65,000			" N
65	0 0	1910		I-826	Baldwin	GE-201H	K-6	57,000		1938	" JJ
66 67	n n	1929	Q	I-827 I-829	Baldwin	₩-307cv6	K-6a	61,400		1938	Note JJ
88	H H	1905 1905	Sn Sn	U-287 U-285	11	GE-205	K34d	75,000		1938	" N.L
70	0 W	1913	C	T-181	St Louis	W-93a	GE-M	75,000 60,000		1938 1937	n N
71	0 0	1914 1926		PS-214 PS-217	Baldwin	GE-205a GE-205a	GE-K64 W-HL	47,500 65,€00		1939 1939	" K, M
7	Work Motor	1938	R	718 U	Standard Bàldwin	W-303 W-85	IA	78,000 75,000		1938	" N,R
8	H H	1918	U	n n	11	W-303	LA	74,800		1939	
30	0 0	1908	U	U	0	W-85 GE-57	IA Kl4	60,000 50,000		1938 1938	
12	H H	1926	n	U	Baldwin	GE-205a GE-205f	I4 I4	64,800 76,500		1938 1938	
33 -785	H H	1927	U	U	и.	W-85 W-303	IA IA	62,300		1937	Note NN
787	H H	1928	U	U	Standard	и	W-HIL	63,000 104,000		-53:23	
38		1920 1923	T	T-193 T-195	Peckham Baldwin	GE-73 W-303	K34d K64bra	77,900		1938 1938	- 4
0	n n	1913		PS-611 PS-612	Baldwin St Louis	GE-57h	K14	46,000			Note N
795	Wreck Motor	1934	R	I-818-822 U-443	77					1938	" 00,
51	ii ii	1922	T	T-152(?)	£'dwin	7-333 7-121a	W-HL K64bra	85,600 65,000			11 00
3	н н	1908	J	PS-149 I	Standard		K64			1939	n RR,
71	Wreck Trail Snow sweeper	1903 1910	C	U-1150 T-591	Arch Bar	trail GE-67	none K10	31,000 48,000		1938	1
76 77	Snow plow	1900	T	T-155	Arch Bar	trail	none	28,000		1937	
32	City work	1900 1918	B	T-199 T-806	Brill	7-506el0	K63br	28,000		1938 1938	
35 38	Sand dryer Portable sub	1912		U-645 PS-222	Arch Bar Fox	trail trail	none	32,000			
39	11 11	1920	F	U-1152	Armour	11	R	75,000		1938	45.55
1	Pull car Work caf	1923	G.	PS-158 PS-171	Baldwin	GE-254	GE-PC GE-K35	105,000		1939 1939	Note K, S
-205	City passgr.	1927	K	PS-260-5	Brill	W-510e	W-HL	40,200		1939	" N

#### REFERENCE NOTES - INDIANA RAILEOAD ROSTER

Owing to the complexity of this roster extensive use is made of symbols and explanatory reference notes. Each column of the roster is headed by a number and explanation of these columns is given below. Where code letters have been used to save space in these columns they are explained in connection with the respective columns in the notes below.

COLUMN (1)-NUMBERS. These are the car numbers, or where a group of more than one have the same characteristics the series of the group. Mane is shown where cars had no numbers only.

COLUMN (2)-TYPE CAR. The accompdations of the cars; thus, Obs.-Enclosed observation; bagg. -car with baggage compartment; RPO-Reilway Post Office compartment; Line notor - Motorised line car; Work Motor - a handy light locomotive, usually a flat car-with-cab job having one control position in the center of the cab suited to operation in either direction; Wreck car - a tool car for emergency work; Sand Dryer - a car equipped to dry out sand for use on the road; Fortable-sub - a substation mounted in a cer so that it may be moved about to meet temporary power requirements.

COLUMN (3)-BUILT. The year car originally was built, or if unknown, year acquired in. Where complete-Ly rebuilt, using salvage from former cars, the year of rebuilding is shown,

```
COLUMN (4)-BY. The car builder. Table below gives code:
  A - American Car & Foundry Co.
                                      G - Jackson & Sharp Co.
                                                                   S - St. Louis Car Co.
  B - J.G. Brill Co.
                                      In -Interstate Car Co.
                                                                   Sn- John Stephenson Co.
                                                                   U - Union Tr. Co. of Ind. shop
                                      J - Jewett Car Co.
  C - Dummings Car & Coach Co.
      and McGuire-Cummings Mfg.
                                      K - G.C.Millman Co.
                                                                   W - Baldwin-Westinghouse
  Ci- Cincinnati Car Co.
                                      L - No. Ind. Power Co. shop
  D - Dayton & Western Tr. Co. shops
                                      Mi- Niles Car & Mfg. Co.
  E - A S & I Co (We cannot verify
                                      P - Pullman Car & Mfg. Co.
      just what this would mean)
                                      Q - Ind. Serv. Corp. shops
  A - Armour Cer Co.
                                      R - Indiana R.R. shops
```

COLUMN (5)-WAS. The source of the car to Indiana R.B. Former number is given where known to differ from that used on Indiana R.R. roster. Abbreviations used are:

- D Dayton & Western Traction Co.
- H Northern Indiana Railway, Inc.
- I Indiana Service Corporation.

- T Terre Hante, Indianapolis & East'n Tr. Co.
- L Northern Indiana Power Co. U - Union Traction Co. of Indiana
- PS- Public Service Co. of Indiana, successor to Interstate Public Service Company.

COLUMN (6)-TRUCK. The truck builder. The following abbreviations are used:

A - American Car & Fdry. C - Cummings and McGuire-Cummings. Cmnwlth - Commonwealth.

COLUMNY (7	)-MOTORS. ENERAL ELECT	TRIC TYPES		WES	TINGHOUSE ELE	C. & MFG. TY	TES
GE-57	50 hp.	JB-205	110	₩-85	75 hp.	T-333	125
67	40	254	145	93	50	506	25
73	75	275	65	121	90	510	35
201	55	706	100	303	110	516	50
				307	50	562	100

COLUMN (8)-CONTROL. Here again GE - General Electric Co. W - Westinghouse Elec. & Mfg. Co. Multiple Unit types:

HL - Hand accelerated, line energized, electropneumatic contactor.

HIF - " with field control.

magnetic contactor.

PC - Automatic accelerated, line energized, camshaft contactors, with field control. Non-multiple unit types:

IA, K34, K14, K10, K6 - 4 motor controllers with separate canopy hand operated breakers. K63 - 2 motor controller as above.

K64, K35 - 4 motor controller usually with special handle to operate magnetic contactor type of line breaker located under car.

K75f - 4 motor controller with separate motor cut-out, line breaker and field tapper.

COLUMN (9)-WEIGHT. Weight of car as light-weighed or officially estimated. Weights of line and wreck cars taken without tools, freight cars without lading, passenger cars without load.

COLUMN (10)-CAPACITY. Of passenger cars this is seating capacity, freight it is lading tonnage allowed.

COLUMN (11)-RETIRED. Year last car of group was taken from service. If no date shown cars of this group are still believed in operation.

COLUMN (12)-REMARKS. The symbols used in this column are decoded below:

```
A - Parlor cars "INDIANA" and "FURDUE" purchased as coaches from Stark Elec. R.R. and rebuilt by UTCo.
B - Cars 50-84, field control discontinued 1932 but equipment retained on car in case of future need.
0 - Cars 55, 62, 63 converted from standard coach-lounge type in 1934.
D - Cars 90-99 acquired from Cummings Car & Coach Company in 1935.
E - Cars 301-306 rebuilt 1921 by American Car & Fdry. Co. from Induls. Columbus & South's Tr. Co. cars.
F - Car 327 rebuilt 1927 at Spuy Run by Indiana Serv. Corp. from Ft. Wayne & Decatur Tr. Co. car 103.
G - Car 401 was retired prior to 1930. Some of 400 class cars had Standard trucks instead Baldwin-
H - Cars 442, 445, also 443 (1150) and 444 (710) acquired from Michigan H. R., Grand Rapids Holland &
     Chicago division, where they were 112, 115, 113, and 114, respectively.
I - Cars 446-449 acquired from Indianapolis & Cincinnati Tr. Co., where they were in 600 series.
J - Cars 450-455 were Interstate 150, 151, 152, 154, 155, 156, 157 respectively.
X - Equipment thus marked with control at one end of car only.
L - Car 701, ex UTCs 605 came originally from Muncie & Portland Tr. Co.
W - Car 710 built from salvage of car 444 UTCo. See note H.
N - Equipment thus marked with control at each end of car.
0 - Cars 712-714 were baggage trailer cars 476-478 on Interstate.
P - Car 714 has special vernier control designed and installed at Indiana R.R. shops.
Q - PS 434 was formerly numbered 425.
R - Car 718 converted to line car 773 in 1938.
S - PS 422 made from Indianapolis & Louisville Tr. Co. 902 in 1920.
T - PS 425 made from PS 428, similar to PS 427 (Indiana R R 711). No other date.
U - PS 426 "
                     Louisville & Northern Ry. 802.
V - U 610
                     passenger car 267 in 1922.
W - 11 612
                                 " 263 in 1923,
X - I 847
                     I 47, made from Ft. Wayne-Lima R R passenger car 47.
Y - I 852
                     I 52.
                                                                NOTE: In these notes the symbols of
Z - I 853
                     I 53, formerly passenger car 322.
                     I 54, I 855 made from I 55.
                                                                column 5 are occasionally used to
AA- I 854
BB- I 856
                    I 56.
                                                                designate original owner railroad,
CC- I 857
                     I 57.
                                                                in order to conserve space.
DD- I 858
                     I 58, I 859 made from I 59.
EE- Car 738 rebuilt 1937 from stored parlor-buffet car, Interstate 161.
FF- Car 750 was completely rebuilt in 1939 using only cab of PS-605, which was built about 1910 by
      General Electric Co - American Loco. Works, and had arch bar trucks, K control.
GG- Car 761 had a X64 controller at one end; an IA at the other !
HH--Car 752, ex-T 190 come originally from the Indianapolis Crawfordsville & Danville Ry.
II- I 823 made from Ft Wayne & Northern Indiana Tr. Co. car 42.
JJ- Altho place left for these cars in roster they were never used on the system and not remumbered.
```

KM- Car I-829 built from salvage of Ft Wayne & Decatur Tr Co. freight motor 110.

LL- Cars 768 and 769 originally were Indiana Northern Tr. Co. passenger cars.

MM- PS 214 made from Indianapolis Columbus & Southern Tr. Co. 503. NN- Motor 783 converted later to flat car.

00- Motors 792-795 renumbered but never used on system, hence no data available.

PF- Altho not used in revenue service this car retains name "Elwood". See also note H.

QQ- Motor 1151 originally passenger motor T 79, Jewett built.

RR- Interstate 149 was originally Western Onio Ry. 198.

SS- Car 158, carrying Interstate lettering, originally a parlor-dining car. Inside fittings were removed, car was fitted with 4 motors, but otherwise unchanged it was used as a locomotive.

TT- Car 171, carrying Public Service Co. of Indiana lettering, formerly a steel sheathed passenger car used on Charlestown branch, then seats removed and used as a work car, Originally built from wood passenger car in 1 series of Indianapolis Shelbyville & Southeastern Tr. Co.

NAMED CARS: Prior to conversion to one-man operation in 1935 of the 427 series and the retirement in 1936 of the 400 series these cars carried the names of towns served by the Union Traction Co.

```
440 - Alexandria
400 - Pendleton
                       408 - Summitville
                                            433 -- Walton
402 - Arcadia
                       427 - Ft. Wayne
                                            434 - Anderson
                                                                441 - Hartford City
                                            435 - Muncie
                                                                442 - Eaton
403 - Cicero
                       428 - Tipton
                                                                443 - Elwood (see car 1150)
                                            436 - Wahash
404 - Atlanta
                       429 - Noblesville
405 - Indianapolis
                       430 - Peru
                                            437 - Marion
                                                                445 - Daleville
406 - Carmel
                       431 - Logansport
                                            438 - New Castle
                                            439 - Bluffton
                                                                158 - Jeffersonville
407 - Winchester
                       432 - Volcomo
```

PARDON US - Sorry, we had so much material to put in this, our largest Bulletin yet, that we had to turn the roster reference notes on their side in order to squeeze them in on one page.

