## 020sIMG TH GREB



 tho State michaty agestrants. Frobably more than 21,000 miles will be on tho Pecaram-aid hifhey aytom and some-
 on With pecari sic. Tha peata adition to the receral-


 atruoted in orver to complate the indtian fraporoment of the system.

Woxe mapidiv tam most of ws realize tho manghway syatem of the Untod states is belne brought to a
 Way from the condituon thet will uthmatoly be reguired bat wo are moving toran it de arprisixely rapid rata. Roada we are now improving with erarol and other low-type suxaces will eventumly have to he furtiow huproved. Narrow present surfacs win neec wideninc: beidgos wion
suffice for whe wecent wil meed rewhacemant grade

 constructed mast 3 combed over to root out of 2 th tha danger places. Ths congestan oraedars and the saitures of one somt ar another 2nevitable in a anetration make of such muntinco Thast are metinne processes and they will oontrme kelotinutayt bue the fact remans that we are row raptan mpacochthathe tho ghen we


 7ay depormaknta.

Soms idea of the pesont condtion om be gained

 contront route what ama from Athantic Oity to San
 pasees throughivmineton, Eatumove wheline Colambus.

 and 40 bouth snd telgon the bwo ourrses wo Limon. Dolorado.

From Atlantic dity to St. Karys, Kansas, just beyond Hanhattan on 40 North o aistaxee of 1,302 wiles, there is continuous perement. The be11s of St. Harys signal the ond of the hatd suriace. but portend no great difficulty for the travelex. The pavement ands but the roed beyond through Limon, Menvers Salt Laice City, Slko, Hev. and Abbum and Sacramente, Calife, to San Erancisco, is mostly gravel surfacen and eraded. with pavoment again Prom Auburn to the terminus, and even the small mileage unimproved is for the most part moder effecient blade grader maintenance. Cataloging the present condition of this road wo find that 52 por cent of 1683,220 milos is paved, 15 per cent $1 s$ grayel surfaoed and the remaindar Is graded and ductned or minproved.

Routo 30 frow inlantic city to Porthana, Ora. is improved to sonwhat higher degree. Ths route, wien coincides with the inincoln Eighway from Philadelphice to Granger, Wyo, and follows very closely tho line of the old Orggon Trail in tha West is 3,460 miles long, It is approximately 86 per cent surfaced with gravel. bituminous macadam or the higher types of pevement.

Dow south the comination of zonta 90 from JactsenVille to Van Horn. wex. and Route 80 from Van Hora to

Los Ancolos takes one across tiog continent with a fourney of 2,640 misis. The rocte follows closely tho line of the old spenish sreil and sone of its sectione are perhaps the oldact roads in the thited Statos. goine back as they do to the spanish occupation of Morida and the Southast.

Fuch of this line in ploride is already waped, and the balanoo sow surfaced with sand-aley is scheduled for immediate pavine. In ALabama thero is approximately 33 miles of animproved road whek is beine ralooatec. to aonform to the line establiphod by the woble brideo. Acrost Mississippi the 91 miles involvod ie constraoted of gravel With intermittomp paing in the valativ of the citios. In boungiank a strilar conaltion obtains for the ontire 340 niles unlesw portions have baen destroyed by the kississippi floca. Im aestern Toxas an extensive pavine progran has bean in progross for four years and ia benng continued. In West Teraw the inzt serious obstacle is ancomtered in a considerable miage of diry road, maintained by comaty authorities, whoch is dificult, if not impaseable, after protrected raixs. In wow Fexico the line is inproved with gravel throughont except possinly 30 wines wost of 4 asilla

Park whon is wase construethon: and the rest of the

 treatec. 0 g pramotit to tas ngelets.

Wha bact oocst routa No. 1, from Rort Kent. Mo. to $4 \lim$ is approxinately 76 por cent improved with sand-axay, cravol, bytuminom macadan or high-type pavemonts, and much of the unimproved earth road - all in the South - in included in the 192\% construetion program. It is Fessomade to azpect thet the entrate line will be completed as an allwesther route fn tho for the annusi



 2 per ont ramaninuc will be completed in 2927. win


 and is contiwuously improwed nitw gravel, band-olay, machan, or higher types or sumbeing from the Camaian border to the Georgia 2 Ins.
kentionine only one move of the man throuch rontes and that tho nots competaly mproved or all - theme ie
 boundary nogr Blane. Washe to wos angeles. This road is completely improved thrownomt wh higkmope pavements oxcept for approximately 200 wiles, whoh is improved with surface-troatod graval, tmodiataly gouth of the oregon Line, and man of bist action, I understand, is now be int furthex improved. In conbingtion with a section of Route 101, from Los dugelsa to the Mexican border this route 18 1569 miles Zong ant it i* pariaps tha longest contimuons strotoh of suracoa road in the huited Statos.
 which sue already far adranosd in smprofomant. 1 have atacribed thene present condition, not with the thought of furnishing goide for bourdats bat morely to indiote how nean we nave come to s onadithon of continusves in-
 begin to draw tocether the tencenoy, rather strong in the early stage of improwewn to soatter construetion is gupplanted by the destro roads and thus complate the throngh onmeotions. The destgation of the hederamela una gtate syotems and nome
 attention ad aftoxt on tha thenowemont of the roads in Dach Staty mioh gentribute moct dixectly to a comnecter intergtate system and shene the grontest numbore of people. The concegtion of $s$ connected sytem is now fimby imlanted in whe mince of the higmay guthorities: and the influmoe of tive pederin Govemment has reoently been directed wen noro strongly townes such a concentration of efroxt Tha moxt wo or theoe gearm shoule soe
 We may confidently expect that by 1930 tho totally uninm provad sections of the primetpat throuch roates will be extremay ware $2 L^{t}$ not absolately non-axistent. Whese intarstate and state routes ame tha trum 1 nos which earry the riook of traitito that Iows batween our principal citles. Into them fere oones aiso z havy wam
 a tromendoue back cornswa Their construetion and mantonance is finanood through the pwhic mevenuas - largezy the direct oonkibutions with motorists and truckers who use them. On the roads thomselves bre travelex is rarely asted to pay toll: but tha sitwation $\begin{gathered}\text { ath reapeot to the }\end{gathered}$
bridges is somewhat different.
The heavy flow of trafific concontrated on the State and Eederal-aid roads and the public disposition to provide properly for the traffic are beine oapital1 zed by private corporatione which obtaln franohises permitting there to construct and operate toll bridges. In many cases the Incow from the tolle anargst on these briages - so heavy has the traftic becomo - is sufficient to pay the cost of construction in four or five years; yet the franchises wader which they are built and operated often penit the: $r$ omers and assigas to sellect tolls ndefinitely - forever if thay ish.

There are agec in wich the pstson or corporation originally granted a franchise holds it for speculative purposes oniy. The bridge is not bullt imadiately but the right to build it ramins with the holder of the franchise and none other until the increase in traffio resulting from the fuprovenont of the appreach roade at public expense givos high value to the brigere right, and it is sold for a large igure, all of wich is clear gain to the orietinal holder.

This is an mber2y incolonshole gituction frox every point of vier, and the winmtod iranchise, aten

Fhen used in a atrajpht-forward manner to provide needed bridge facilitios, is sarcely more jastifiable from the public standpoint. The noed for bridees on fuyortant highrays and the heovy exponse ontailed by thelr construetion, an oxpanse mich is oonoentrated at a simgle point: theso facts are in many casas suficient justification of the financing of the bridea by tolls collected only for a africiant period to pay the oost of the bridge. A number of eridges he vo boen construoted undar various forms of this whthoc, the tolls bolne collected in some cases by the oonstraction company man In othors oy the pulis quthority. mase oan we no great objootion to this method which has built muarous necessamy bridges which otherwise comia not have been built.

Tie passaga of the olufield bill gt tho last session of Congress prowides a desirable means hitherto Iackine, wheroby ths Katama Covarumant my assist the Statec in the coxatruction of toll bridges on the federalald bighmy syotar. Inder the new authorgty granted, the Pederal Gowermant may contribute one-half of the oot of construction and the state maty finance the rowainder by mann of tolla publicly aolleoted for a sufficieat period.

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This arrangement showld make pestible the oertotroetion of bridgos at points where heretefore the laok of avaflable funds and an wwillingness to sadale a burden upon the future trafitc zor the onrichment of a toll bridgo company have preventad tho bullding of badly needed structures. It maj now be hoped that the constractien of suci bridges will procead at a rate fully consonsyt wh the improvement of the roads of the systom.

