

Table I. shows the number of chief, district and assistant road engineers in each of the 46 Departments where a special road service has been organized.

Table I.—Number of Engineers, Etc., on French Roads in Departments Having a Special Road Service.

Departments.	Chief road engineers.	District road engineers.	Assistant road engineers.	Field and office graduate assistants.
Ain	1	5	41	46
Aisne	1	6	55	7
Hautes Alpes	1	4	22	8
Ardennes	1	5	32	6
Ariège	1	4	22	11
Aude	1	4	49	16
Calvados	1	6	34	26
Cher	1	2	21	9
Corrèze	1	2	33	7
Creuse	1	4	27	3
Dordogne	1	5	42	21
Doubs	1	5	26	11
Eure	1	7	44	12
Gard	1	4	36	10
Haute Garonne	1	5	48	16
Gironde	1	10	48	48
Hérault	1	5	49	15
Ille-et-Vilaine	1	7	37	16
Indre-et-Loire	1	3	25	15
Isère	1	7	52	30
Jura	1	5	36	10
Landes	1	4	25	9
Lozère	1	2	19	12
Manche	1	6	51	14
Haute Marne	1	4	33	3
Meuse	1	4	39	14
Morbihan	1	6	25	10
Nièvre	1	3	30	9
Nord	1	8	53	28
Orne	1	5	36	15
Puy-de-Dôme	1	5	53	..
Pyrénées-Orientales	1	2	25	6
Haut Rhin	1	..	5	3
Rhône	1	3	32	29
Haute Saône	1	3	34	4
Sarthe	1	5	34	13
Seine-et-Oise	1	7	51	17
Seine-Inférieure	1	5	50	29
Deux Sèvres	1	4	31	12
Somme	1	6	45	15
Tarn	1	5	28	18
Tarn-et-Garonne	1	2	20	13
Vendée	1	8	26	6
Vienne	1	6	32	15
Vosges	1	6	34	6
Yonne	1	6	42	6

Salaries.—As examples, statements will be given concerning the salaries of the road engineers and assistants in two Departments: In Seine-et-Marne (population = 358,325; area = 2,300 sq. mi.) the service is entrusted to the Ingenieurs des Ponts et Chaussées; in Seine-et-Oise (population = 707,325; area = 2,170 sq. mi.) there is a special service of departmental road engineers.

Department of Seine-et-Marne (Road Service Entrusted to the Government Civil Engineers).—The body of government civil engineers (Ponts et Chaussées) was created on February 1st, 1716, and the Ecole des Ponts et Chaussées, for the education of such engineers, was founded in 1750.

The classes and salaries in the body of the Ponts et Chaussées are as follows:—

	Annual salary, according to seniority.
Inspecteur Général	\$2,900 to \$3,400
Ingénieur en Chef	1,900 to 2,300
Ingénieur Ordinaire	965 to 1,350

In addition to their government work, these engineers are allowed to work for departments, cities, chambers of commerce, etc. From this and from other supplements given by the state itself nearly all engineers earn at least \$200 yearly. Many earn more, and the supplements of a few equal or exceed their salary.

The state salaries of their assistants are as follows:

Conducteurs (assistant engineers), \$425 to \$965 per annum, according to seniority.

Commis (office and field graduate assistants), \$280 to \$675 per annum, according to seniority.

After 30 years of employment, all engineers and assistants are granted an old-age pension of about one-half of the highest salary they have obtained. Besides their state salary and supplements, the engineers and their assistants receive the following fees for their department road service:

Ponts et Chaussées:	Annual fee.
Chief engineer	\$1,150
District engineer	575

	According to seniority.
Conducteurs (assistant engineers)	\$123 to \$192
Office assistants: Head clerks	210 to 385
Typewriters and field and office assistants..	50 to 150

The patrolmen are special for the departmental road service. Their monthly salary is as follows, according to seniority:

Chief patrolman	\$25 to \$27
Patrolman	19 to 21

When these officials are ordered to travel outside the limits of the city in which they reside they receive traveling expenses.

During 1912 the total salaries, traveling and sundry expenses for the road officials, including patrolmen, in the Department of Seine-et-Marne, amounted to \$28,000.

Department of Seine-et-Oise (Special Departmental Road Service).—The salaries and old-age pensions after 30 years' service are as follows:

	Annual salary.	Annual pension after 30 years' service.
Agent voyer en chef (chief road engineer)	\$1,920	\$1,440
District engineer	\$960 to 1,100	825
Assistant engineer	480 to 850	640
Office and field graduate assistants	280 to 575	430
	Monthly salary.	
Chief patrolman	\$22 to 25	\$121
Patrolman	16.50 to 19	100

Many employees also receive various supplements for the high cost of living in certain cities, help to large families, extra work, traveling expenses, etc.

The total of these expenses for the office staff in the Department during 1911 was \$10,400. The total expense for patrolmen and chief patrolmen, including all sundry expenses, was \$72,500.