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Symposium on Industrial Development in Africa
Cairo, 27 January - 10 February 1966

ADDENDUM

INDUSTRIALISATION, ECONOMIC COOPERATION AND
TRANSPORT HYPOTHESIS OF WORK IN THE REGION
OF THE GREAT AFRICAN LAKES

(Map, Graphs, Tables and Annexes)

ERRATUM

The Figures 5-19 which follow Figure 4 of Annex I, should be numbered Annex I (Fig. 5-19) instead of Annex II (Fig. 5-19).

Prix ex-usine
Price ex-works
US\$ per/par tonne/ton

Fonction de production
Production function

- ① Cimenterie Nord Cameroun
Cement works Northern Cameroon
- ② Cimenterie Sud Cameroun
Cement works Southern Cameroon

Prix du ciment importé/Price of imported cement

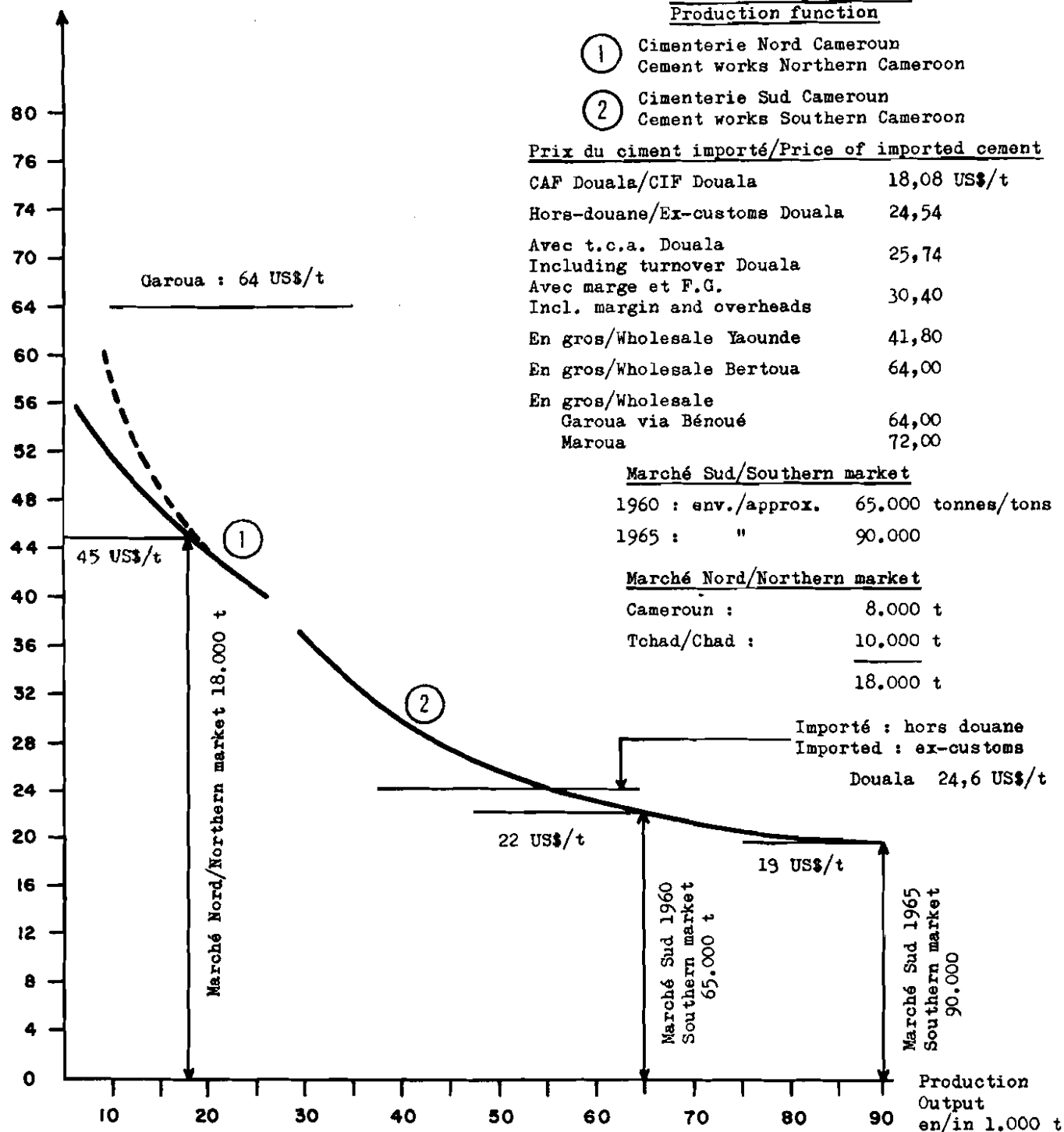
CAF Douala/CIF Douala	18,08 US\$/t
Hors-douane/Ex-customs Douala	24,54
Avec t.c.a. Douala Including turnover Douala	25,74
Avec marge et F.G. Incl. margin and overheads	30,40
En gros/Wholesale Yaounde	41,80
En gros/Wholesale Bertoua	64,00
En gros/Wholesale Garoua via Bénoué	64,00
Maroua	72,00

Marché Sud/Southern market

1960 : env./approx.	65.000 tonnes/tons
1965 : "	90.000

Marché Nord/Northern market

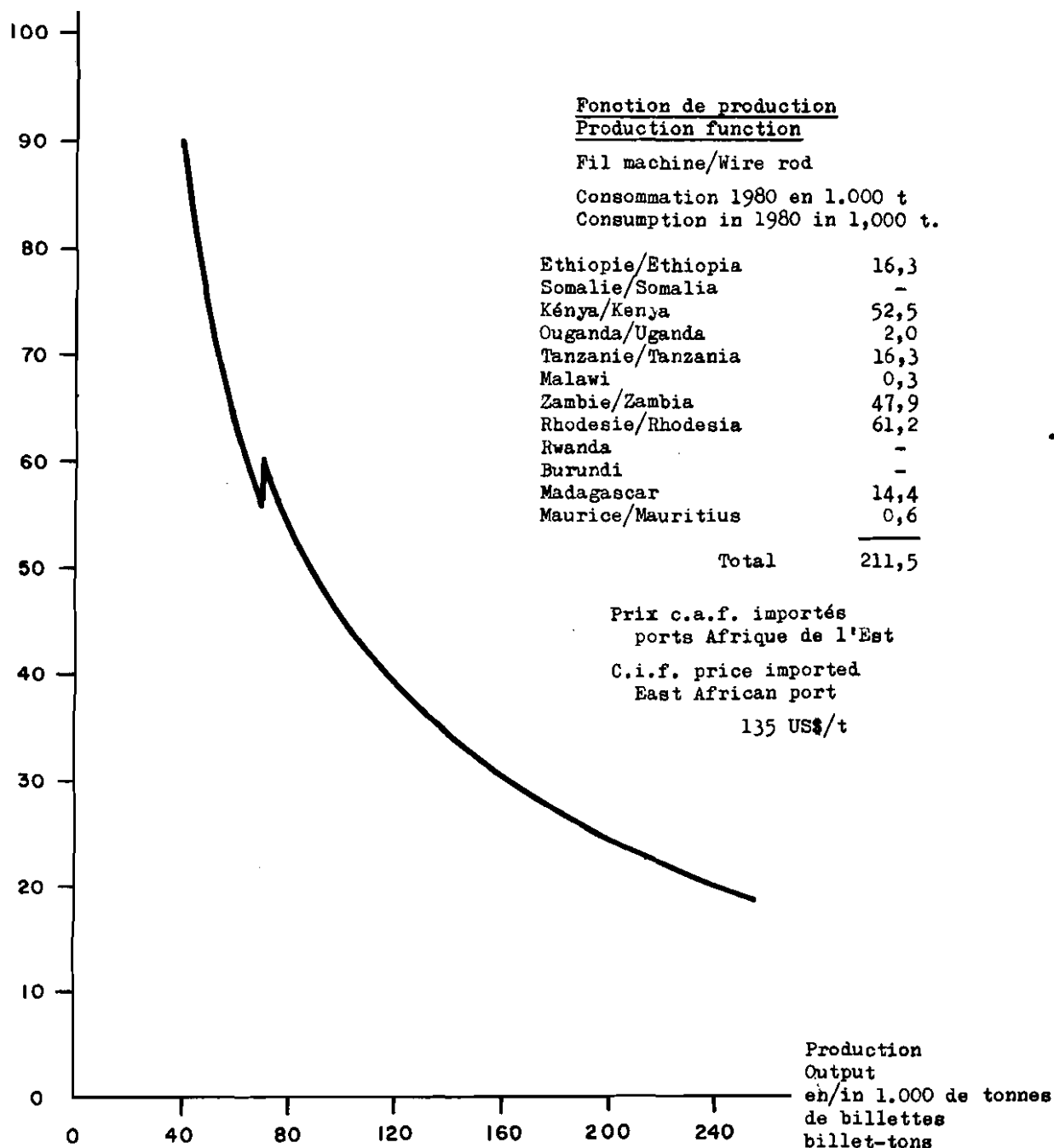
Cameroun :	8.000 t
Tchad/Chad :	10.000 t
	18.000 t



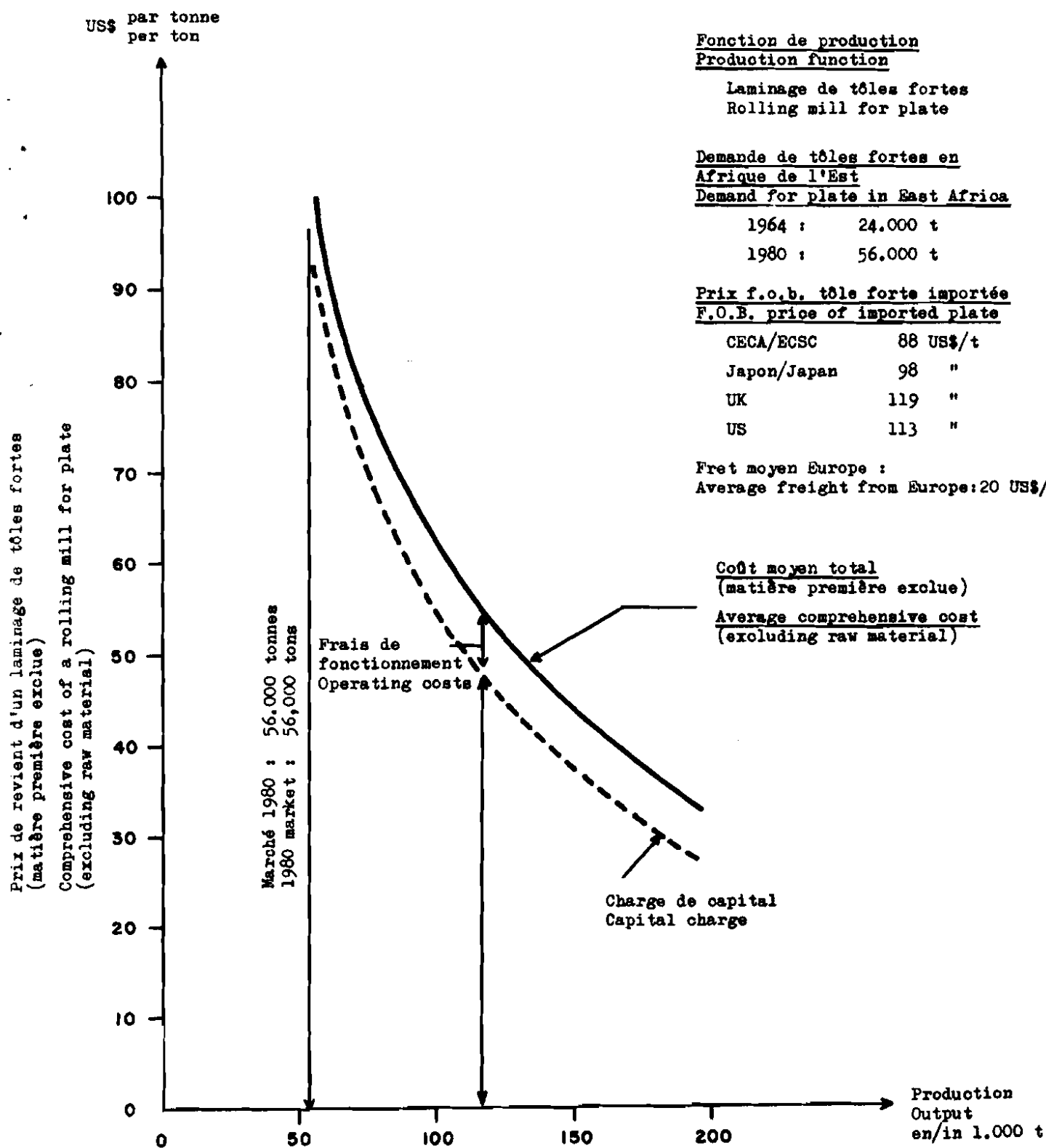
Source : Etude SEDES Développement industriel
du Cameroun 1960
SEDES Study Développement industriel
du Cameroun

Fabrication du fil machine
Prix en US\$/tonne
(matière première exclue)

Manufacture of wire rod
Price US\$ per ton
(excluding raw material)



Source : W.S. Atkins and Partners
E/CN.14/INR/87, p. 27
E/CN.14/INR/87/Add.1, p. 14 & 12.



Source : W.S. Atkins and Partners
E/CN.14/INR/87, p. 77 & 24 - 28.

Prix ou coût
 Price or cost
 en US\$ par tonne
 in US\$ per ton

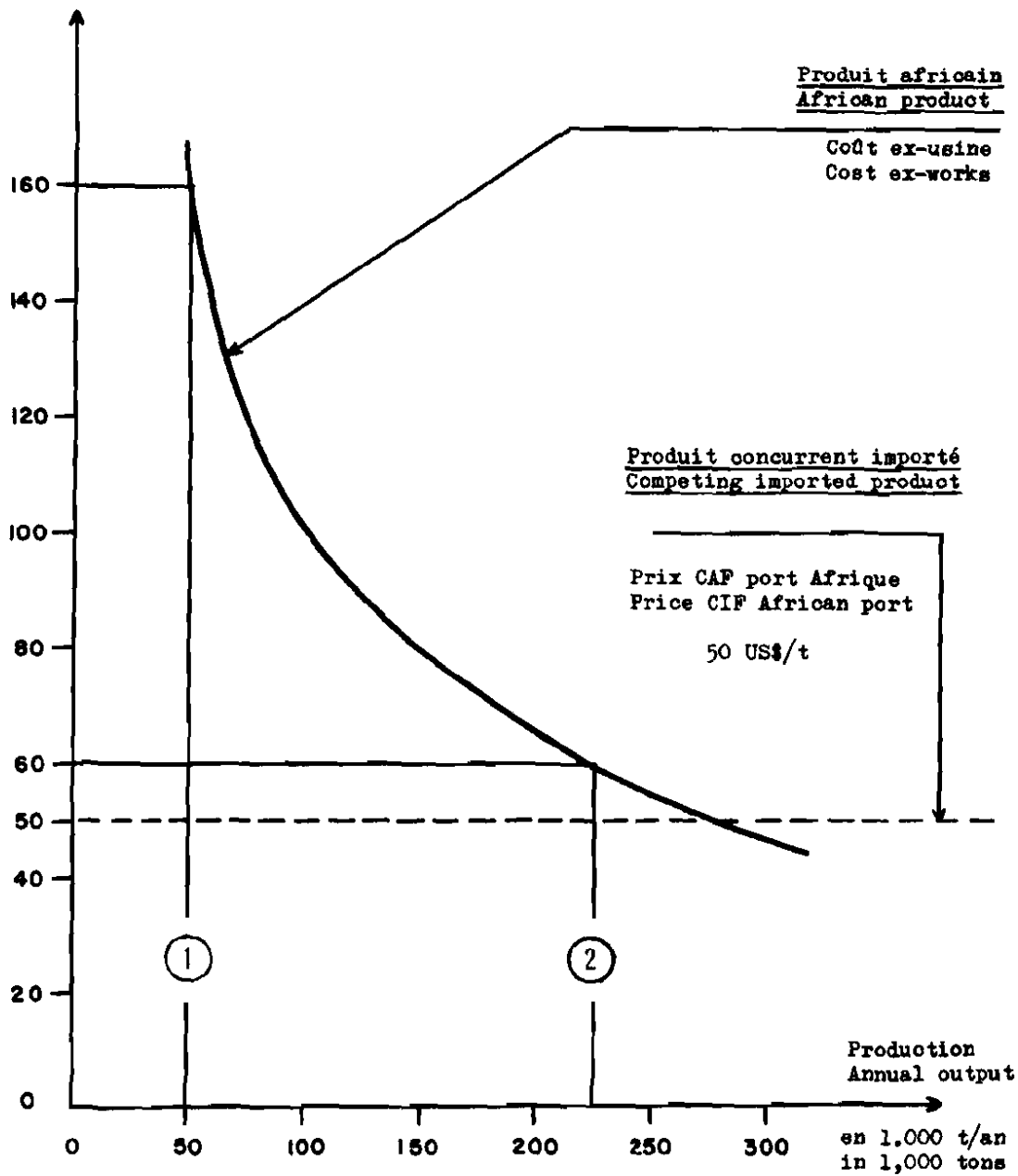


FIGURE 5

COUT DU TRANSPORT FERROVIAIRE
RAIL TRANSPORT COSTS

- | | |
|---------------------------|---------------------------|
| Construction : | 45.000 US\$/km |
| 1. Frais financiers 7% : | 3.150 US \$/km |
| Financial charges 7% : | |
| 2. Renouvellement : | 300 US\$/km |
| Renewal charges : | |
| 3. Charges de structure : | 1.400 US\$/km |
| Fixed costs : | |
| 4. Coût d'activité : | 0,25 US cent/t.km offerte |

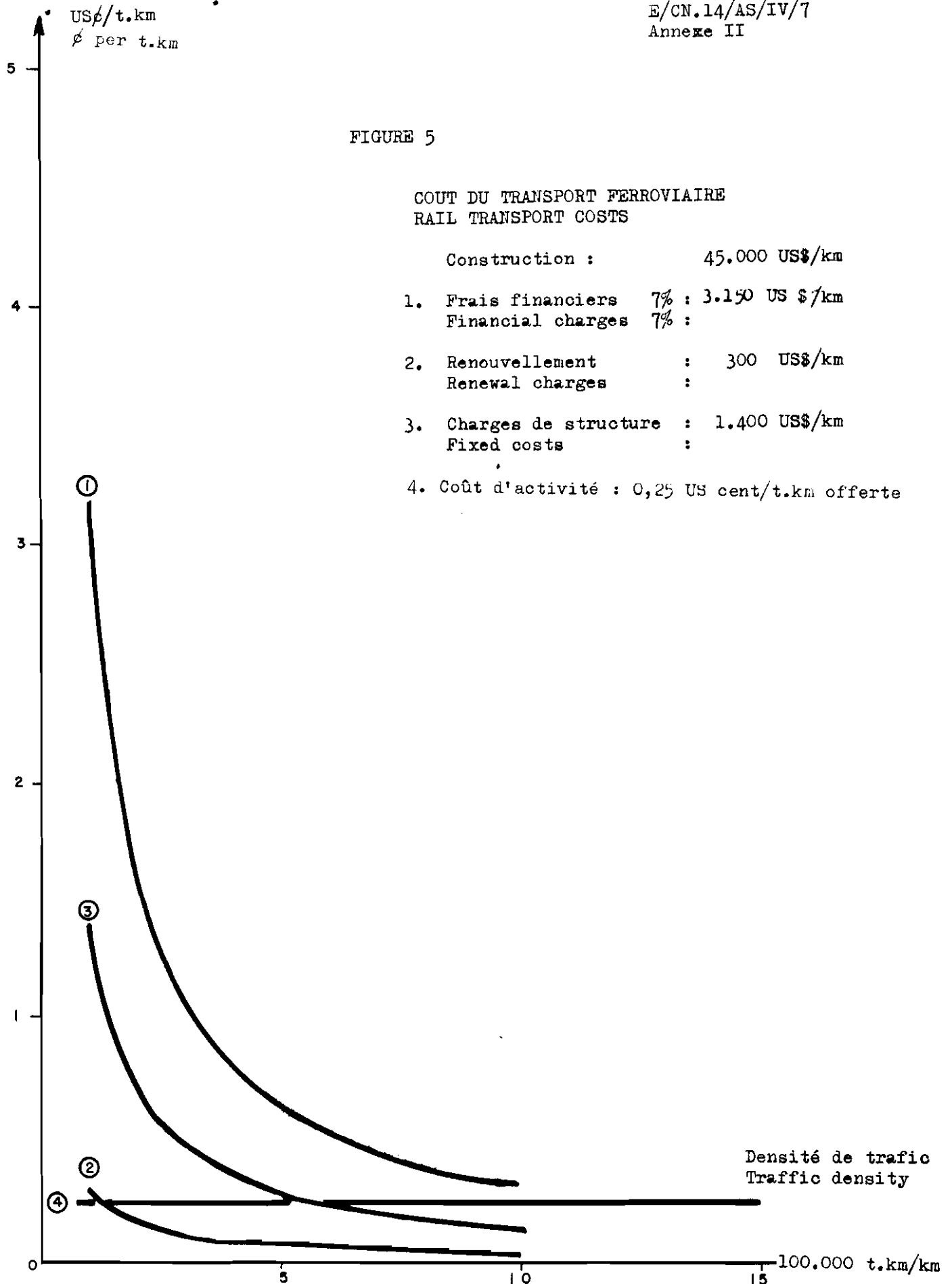


FIGURE 6

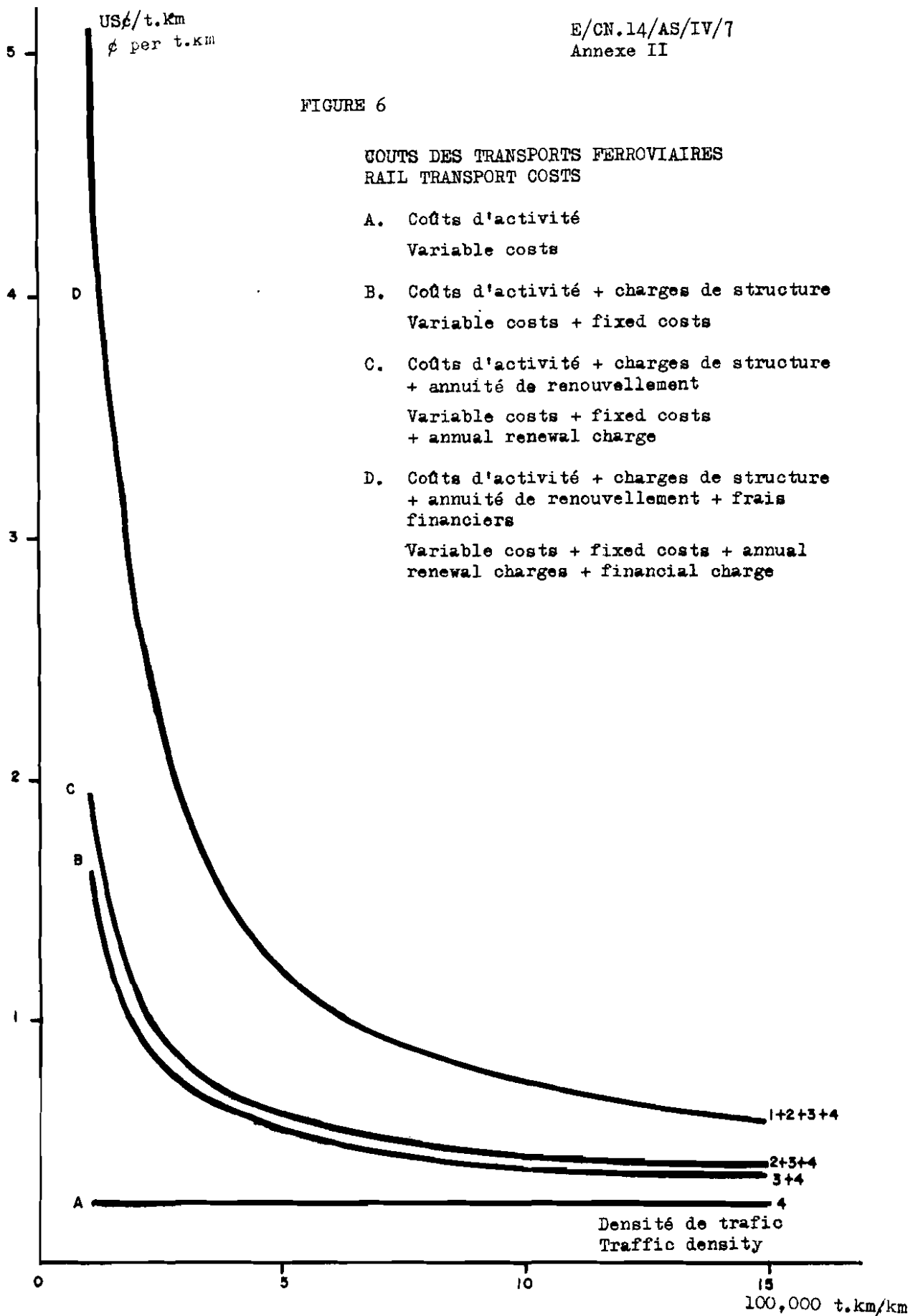


FIGURE 7

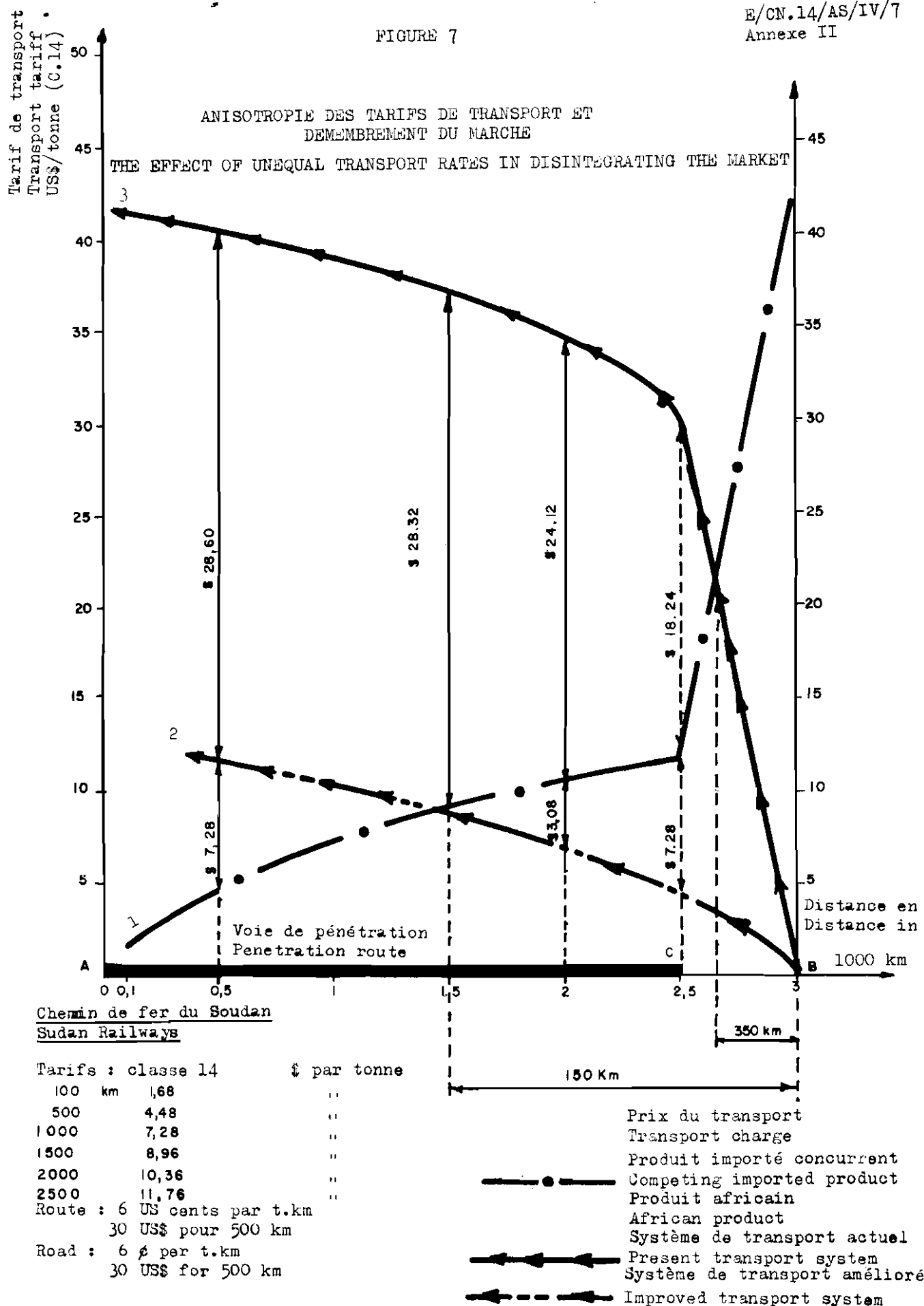


FIGURE 8

E/CN.14/AS/IV/7
Annexe II

Tarif du transport
Transport tariff

US \$ par tonne

LE DEMEMBREMENT DU MARCHÉ AFRICAÏN
PAR LES TARIFS DES VOIES DE PÉNÉTRATION

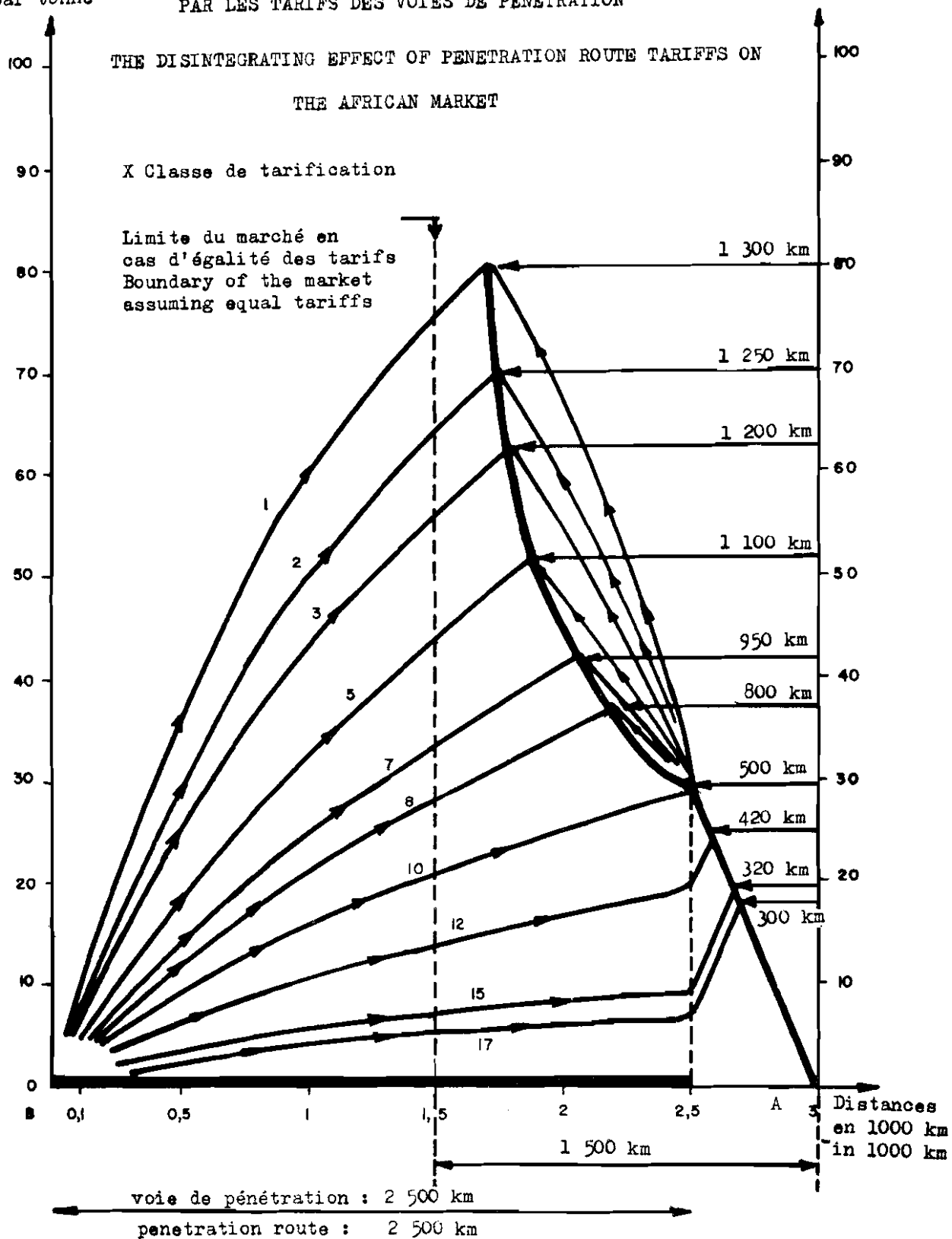


FIGURE 9

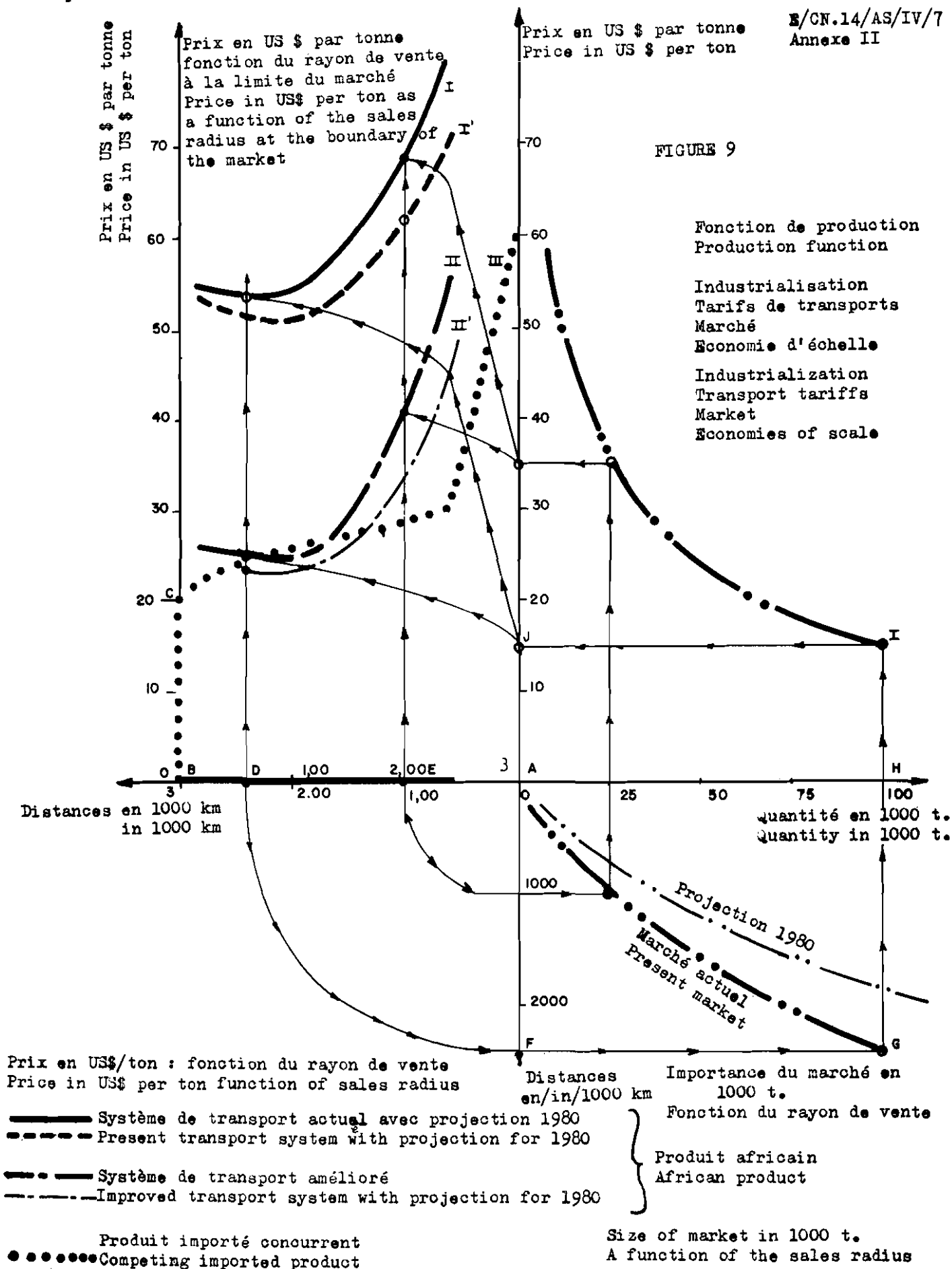
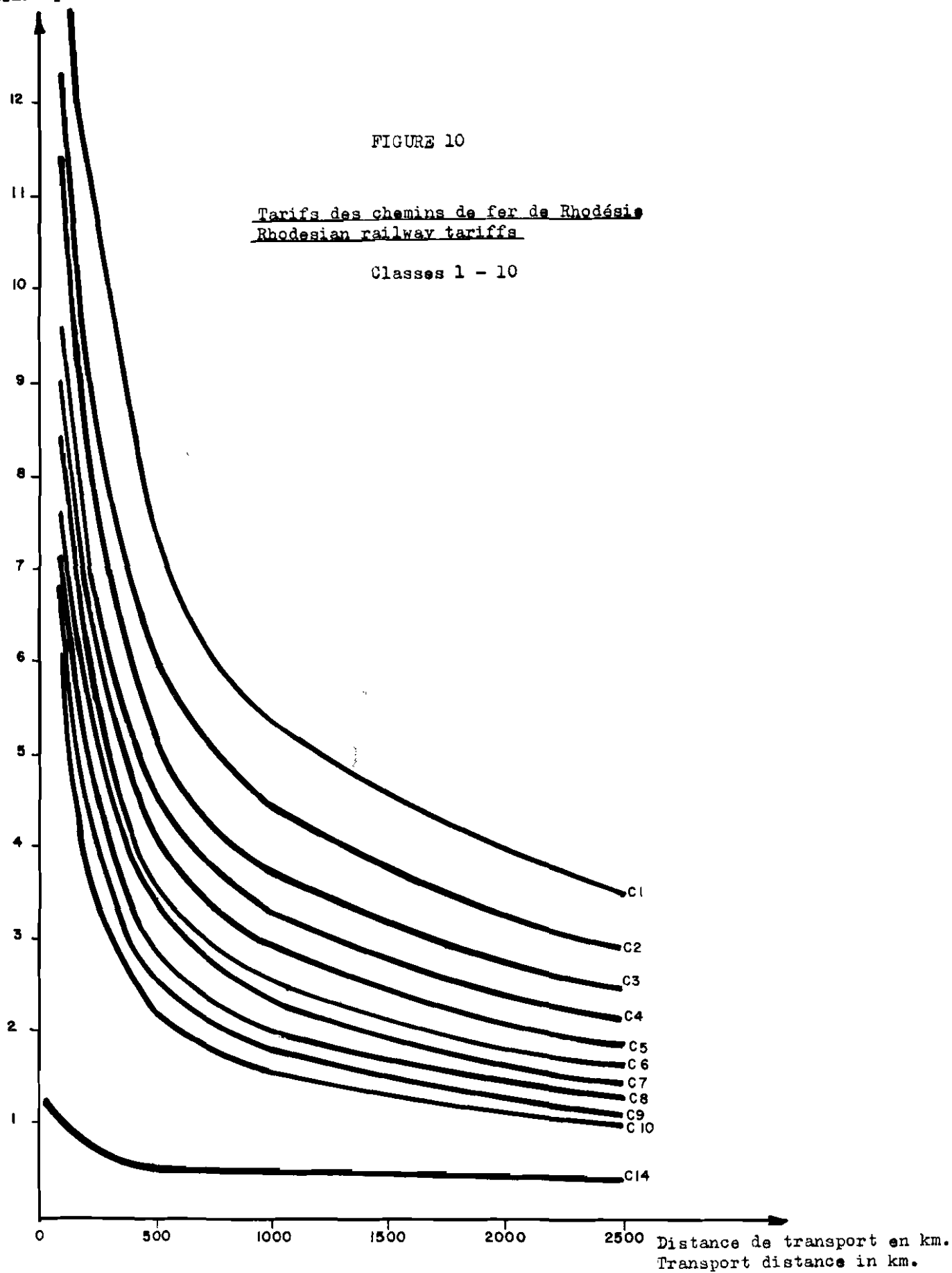


FIGURE 10

Tarifs des chemins de fer de Rhodésie
Rhodesian railway tariffs

Classes 1 - 10

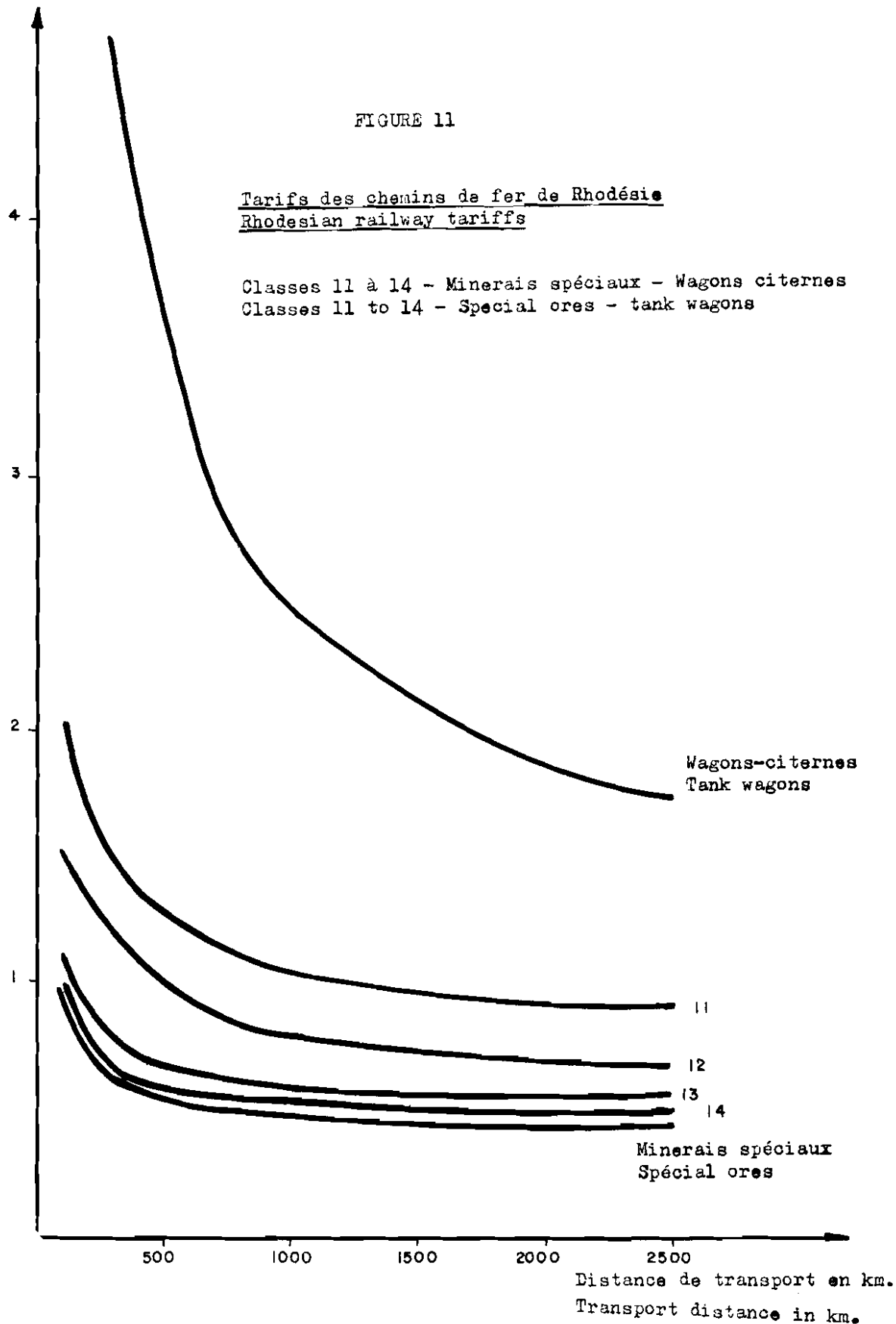


Tarif de la t.km en US cent
Tarif per t.km in ¢

FIGURE 11

Tarifs des chemins de fer de Rhodésie
Rhodesian railway tariffs

Classes 11 à 14 - Minerais spéciaux - Wagons citernes
Classes 11 to 14 - Special ores - tank wagons

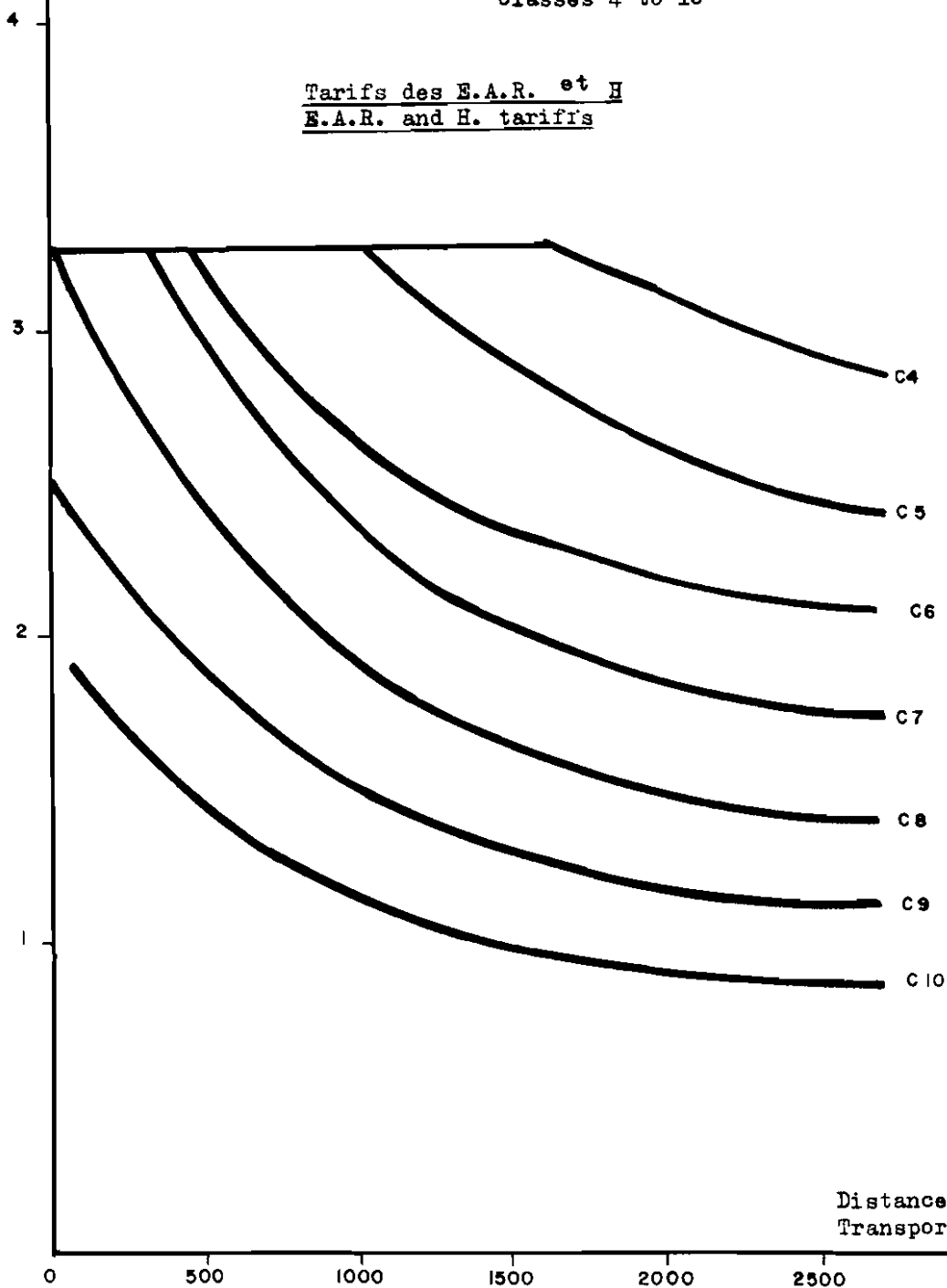


Tarif de la t.km en US cent
Tariff per t.km in ¢

FIGURE 12

Classes 4 à 10
Classes 4 to 10

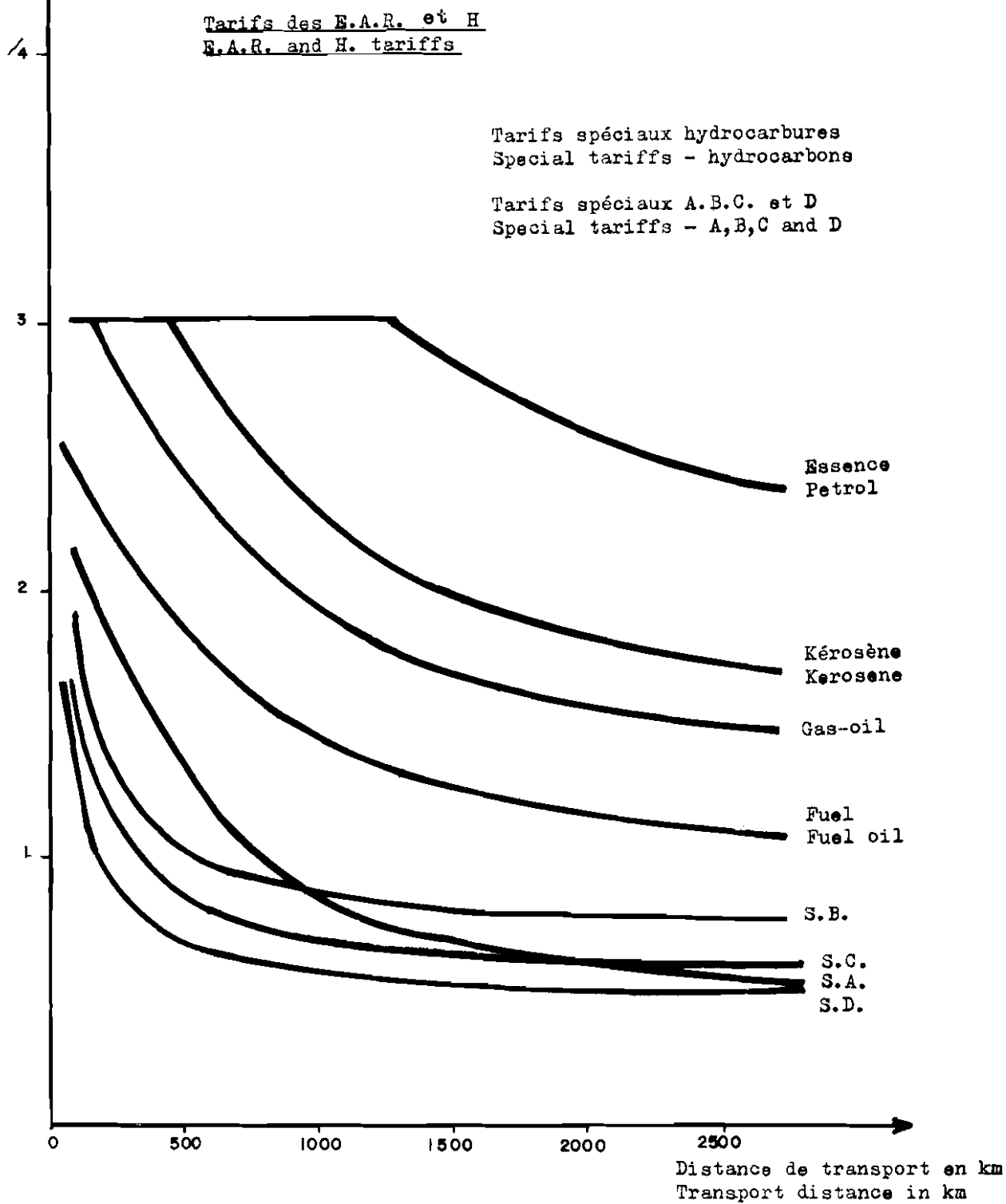
Tarifs des E.A.R. et H
E.A.R. and H. tariffs



Distance de transport en km
Transport distance in km

Tarif de la t.km en US cent
Tariff per t.km in ¢

FIGURE 13



Tarif de la t.km en US cent
Tariff per t.km in ¢

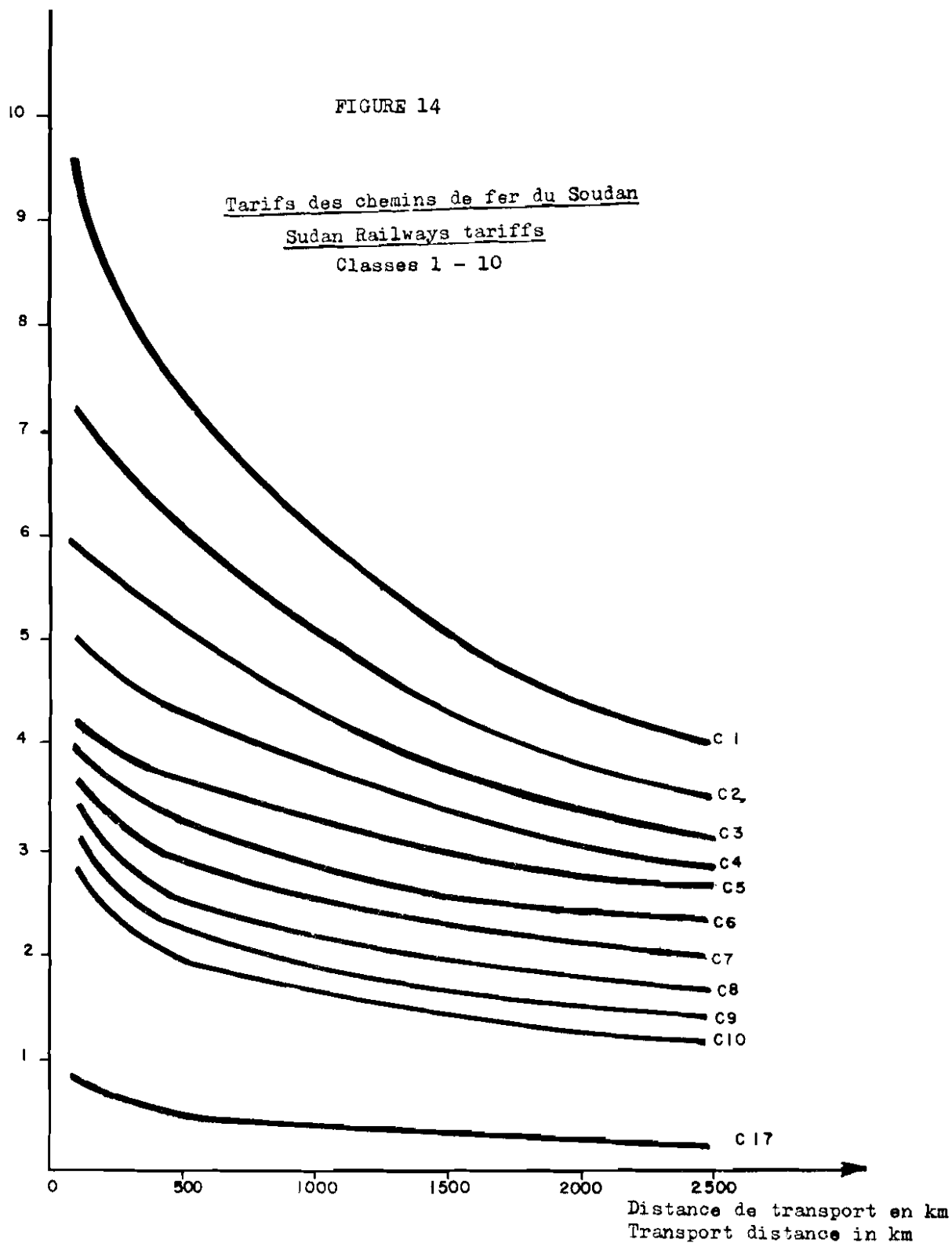
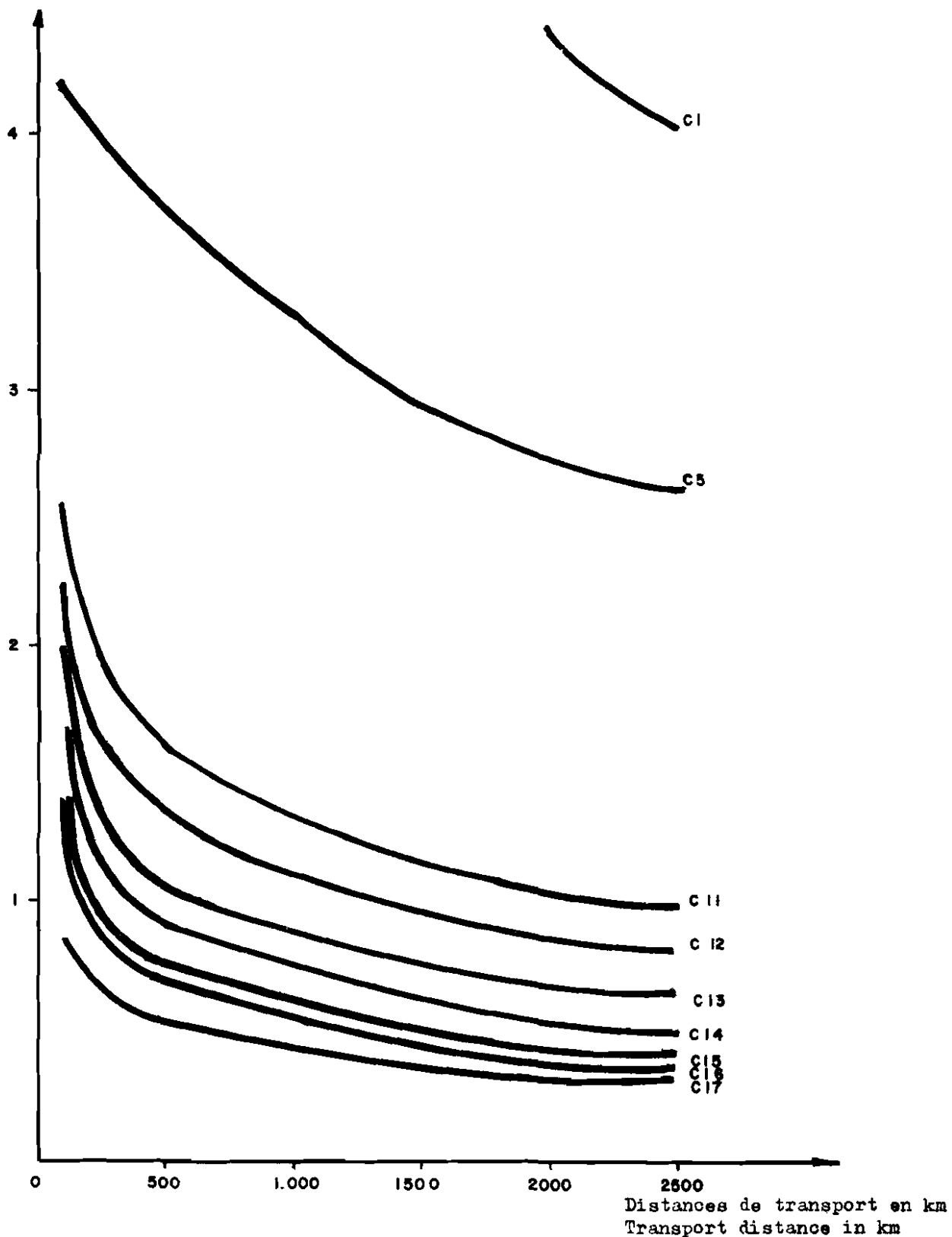


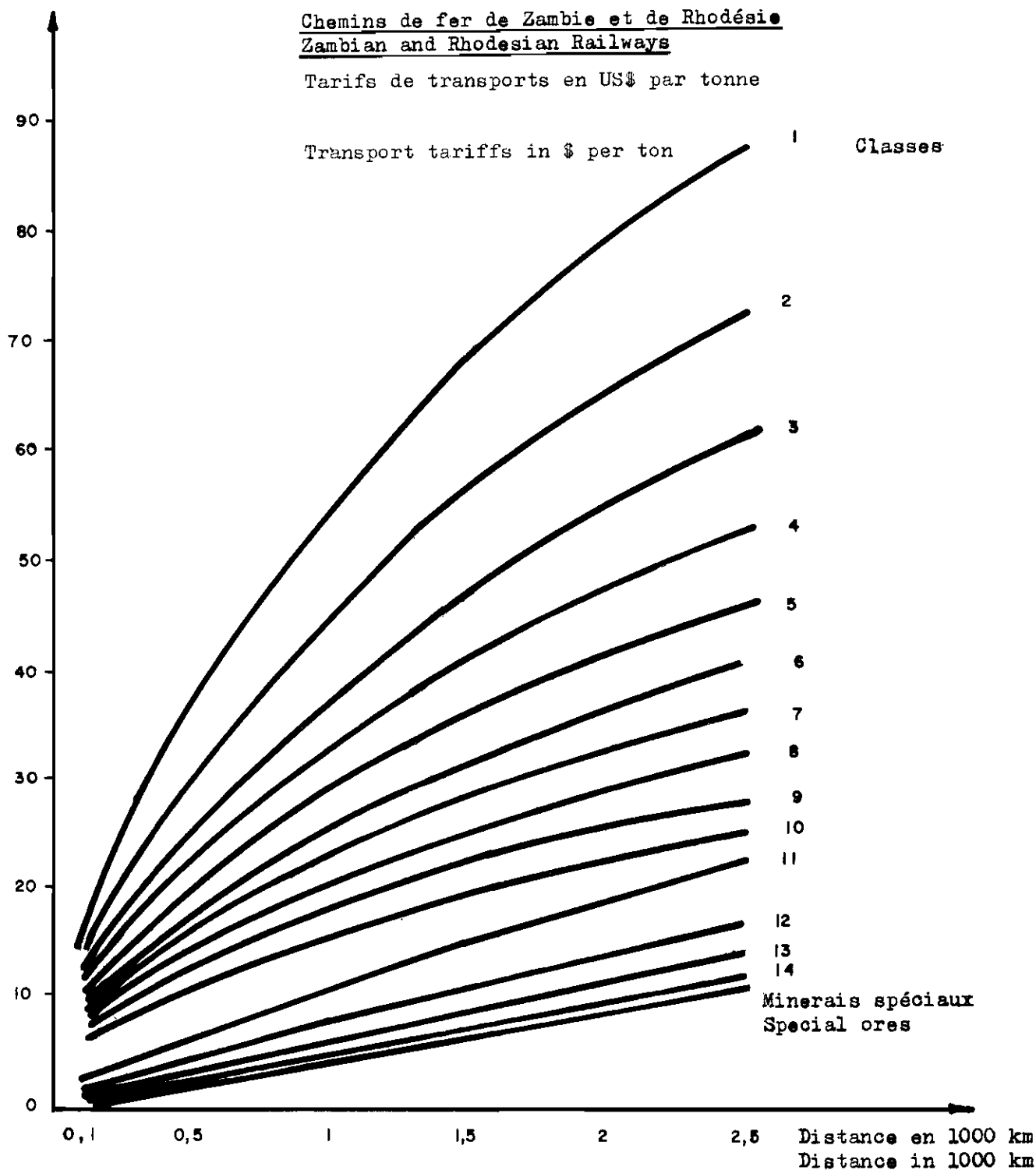
FIGURE 15
Tarifs des chemins de fer du Soudan
Sudan Railways tariffs
Classes 11 - 17

Tarif de la t.km en US cent
Tariff per t.km in ₤



Tarif en US \$ par tonne
Tariff in \$ per ton

FIGURE 16



Tarif en US\$ par tonne
Tariffs in US\$ per ton

FIGURE 17

E.A.R. and H. Tarifs de transport (1963) en US\$ par tonne
Transport tariffs (1963) in \$ per ton

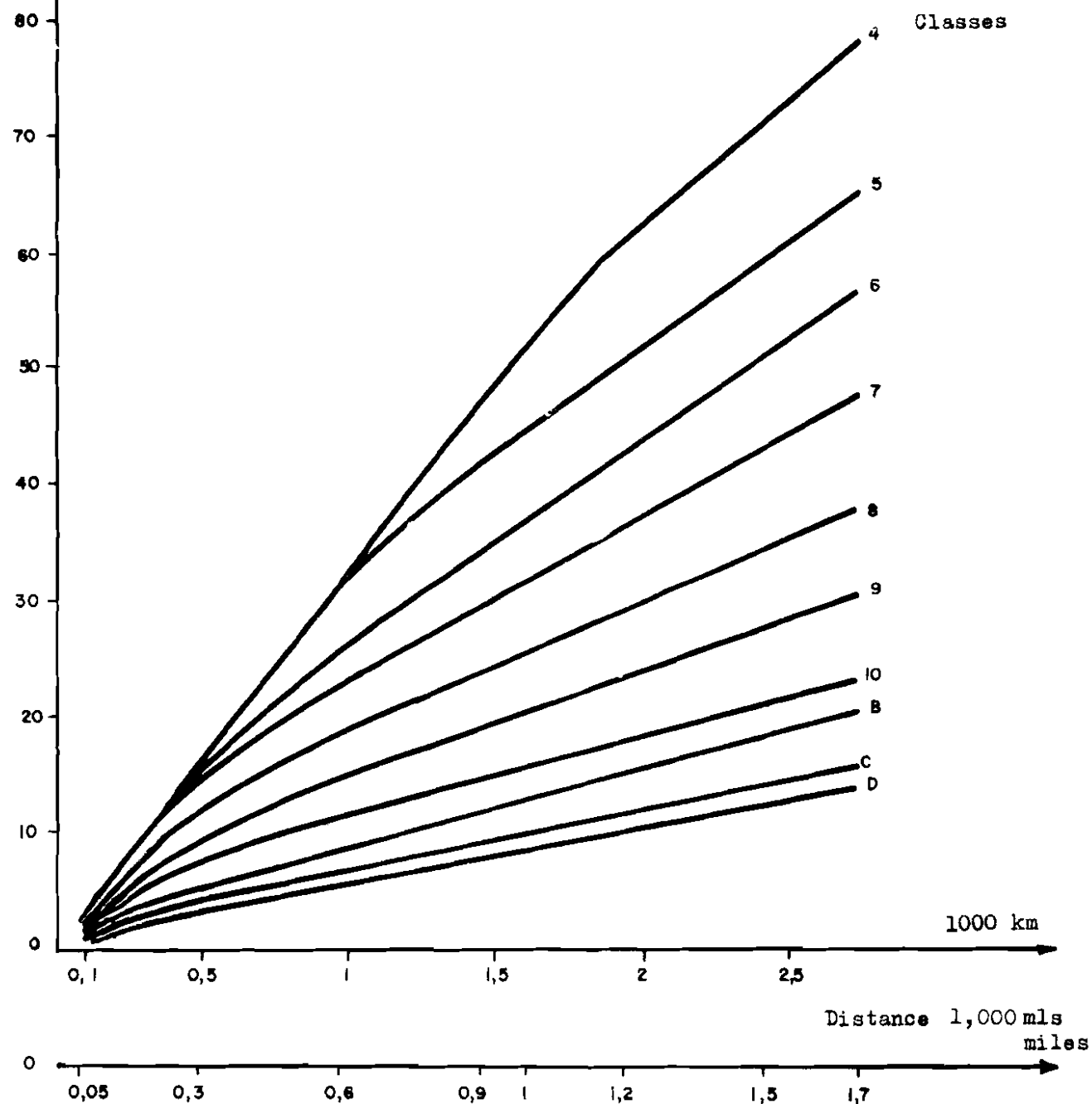


FIGURE 18

Tarifs en US\$ par tonne
Tariffs in \$ per ton

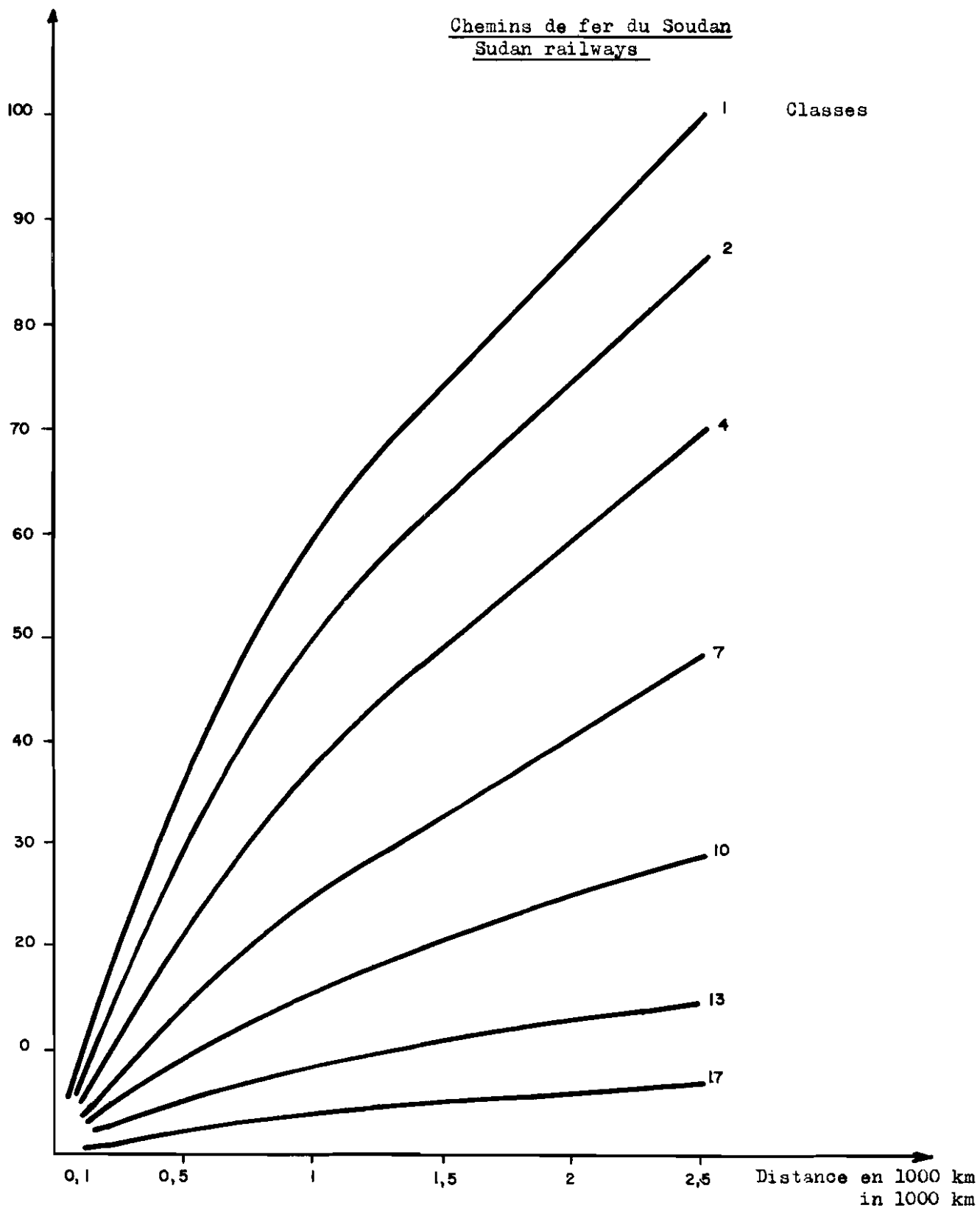
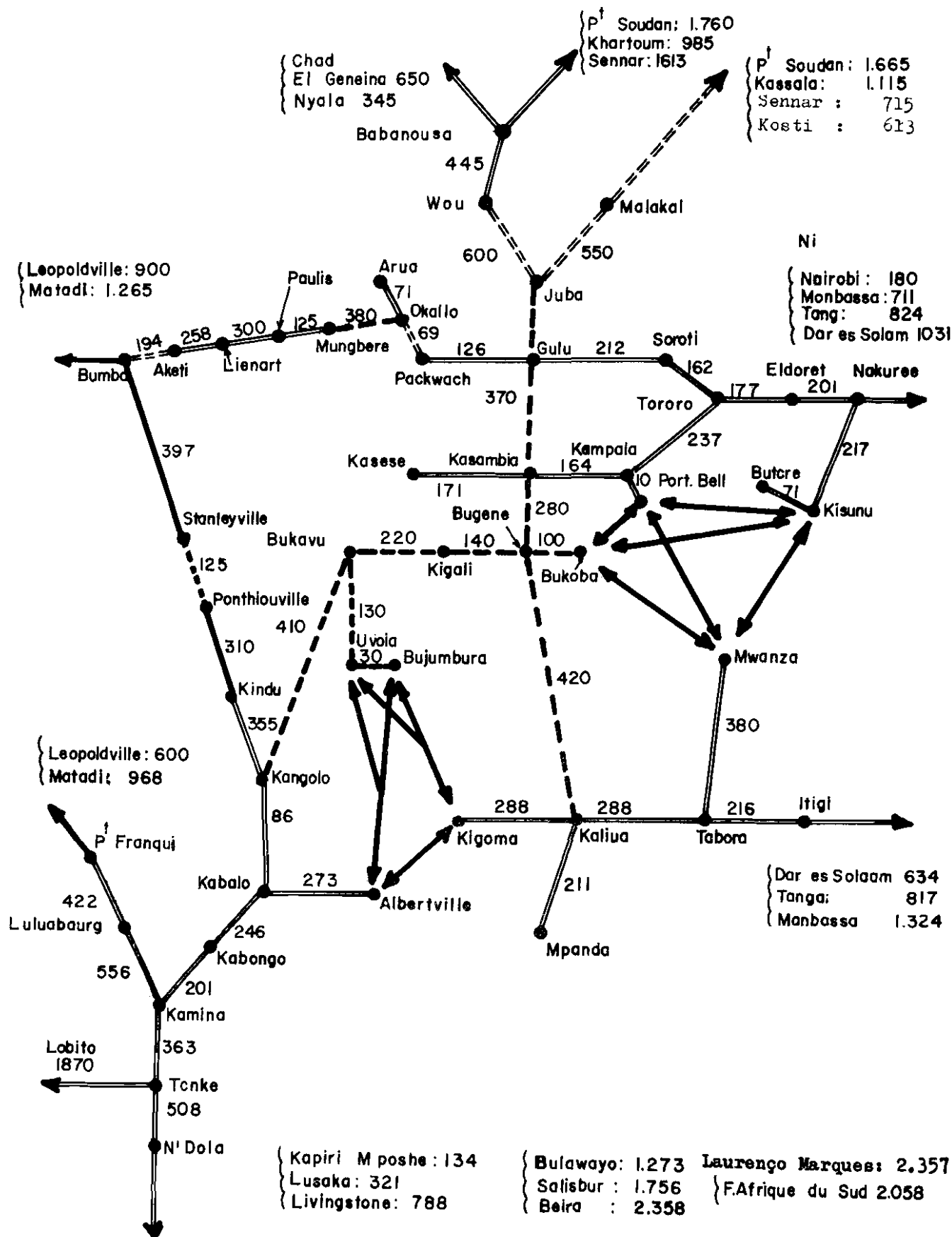
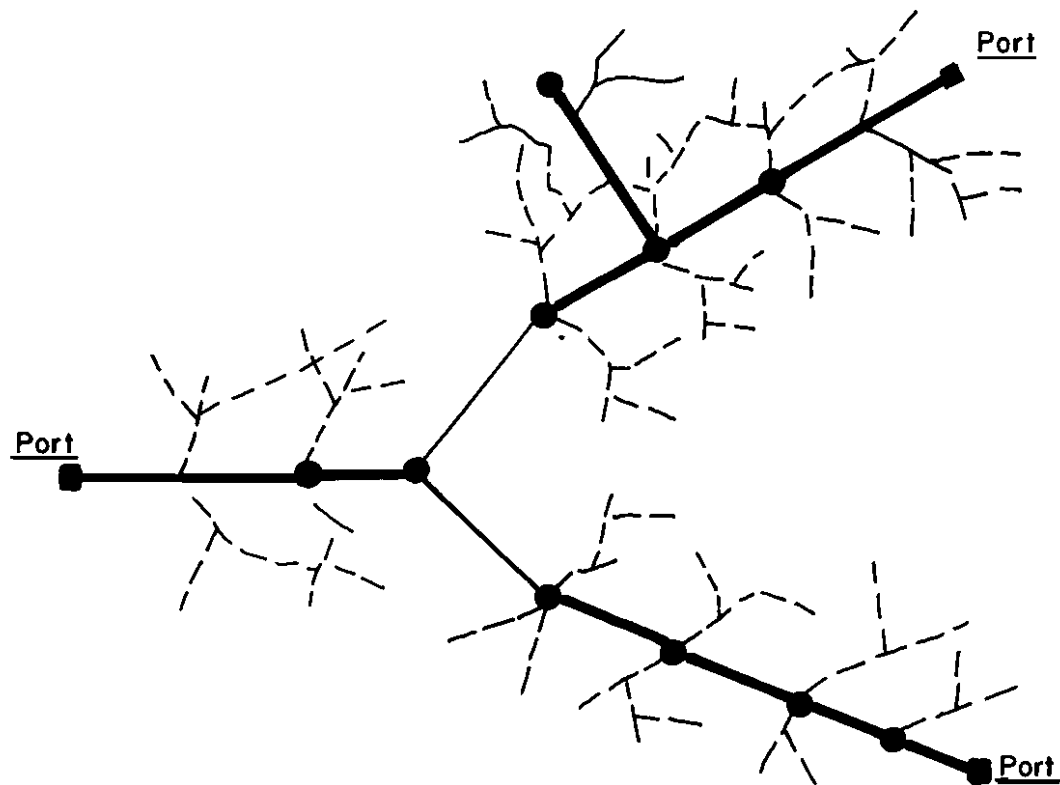


Figure 19
Une hypothèse d'interconnexion en Afrique orientale
Hypothetical links in East Africa



Penetration route	Voies de penetration
Integration Axes	Axes d'integration
Feeder Network	Reseau de desserte



LEGEND — LEGENDE

Maritime port : Entry of imported products
Penetration route
Commercial centres
Integration Axes
Feeder Network

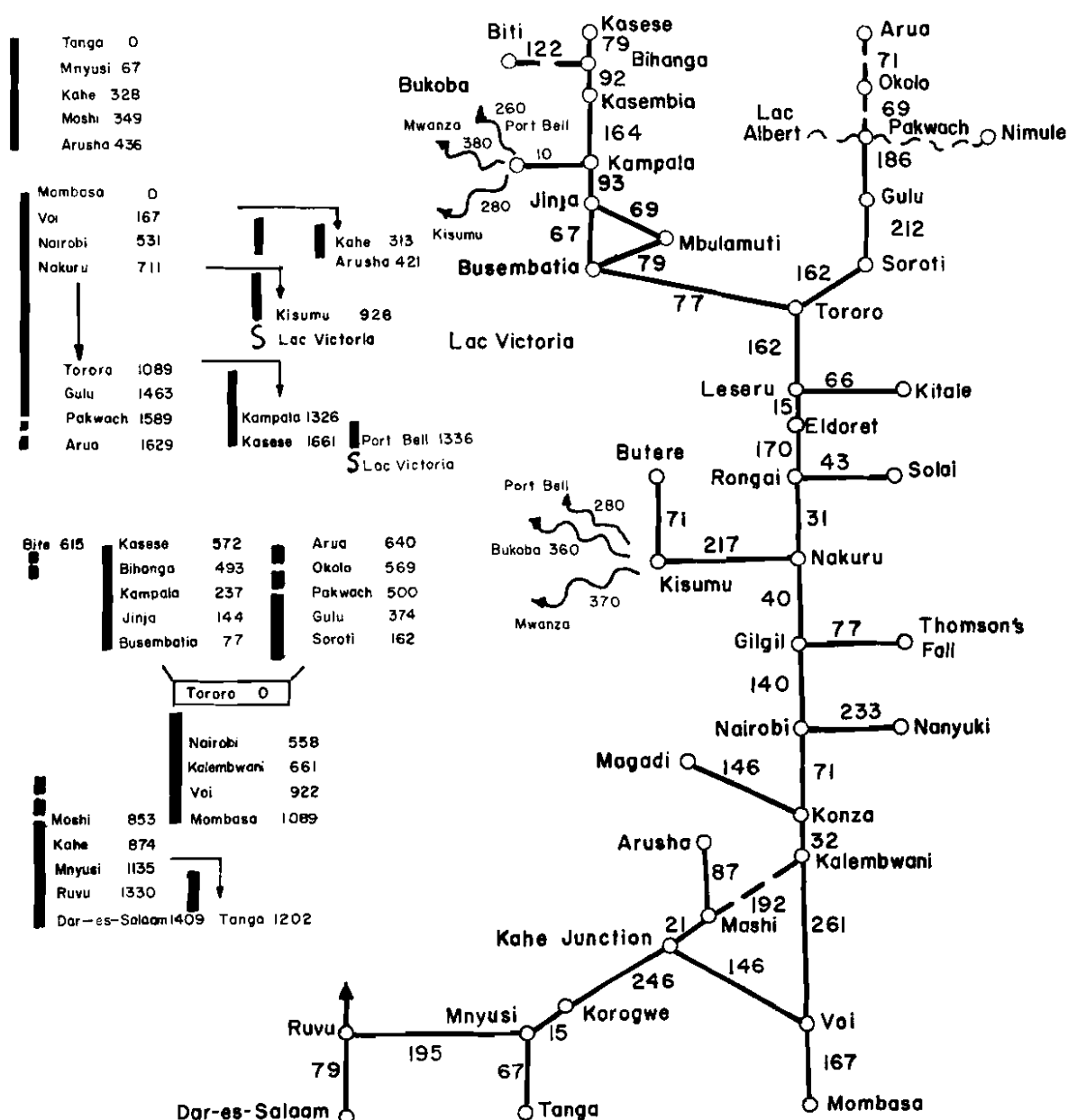
■	Port maritime: point d'accès des produits importés
—	Voies de pénétration
●	Centres commerciaux
— — —	Axes d'integration
— — —	Reseau de desserte

[illegible]

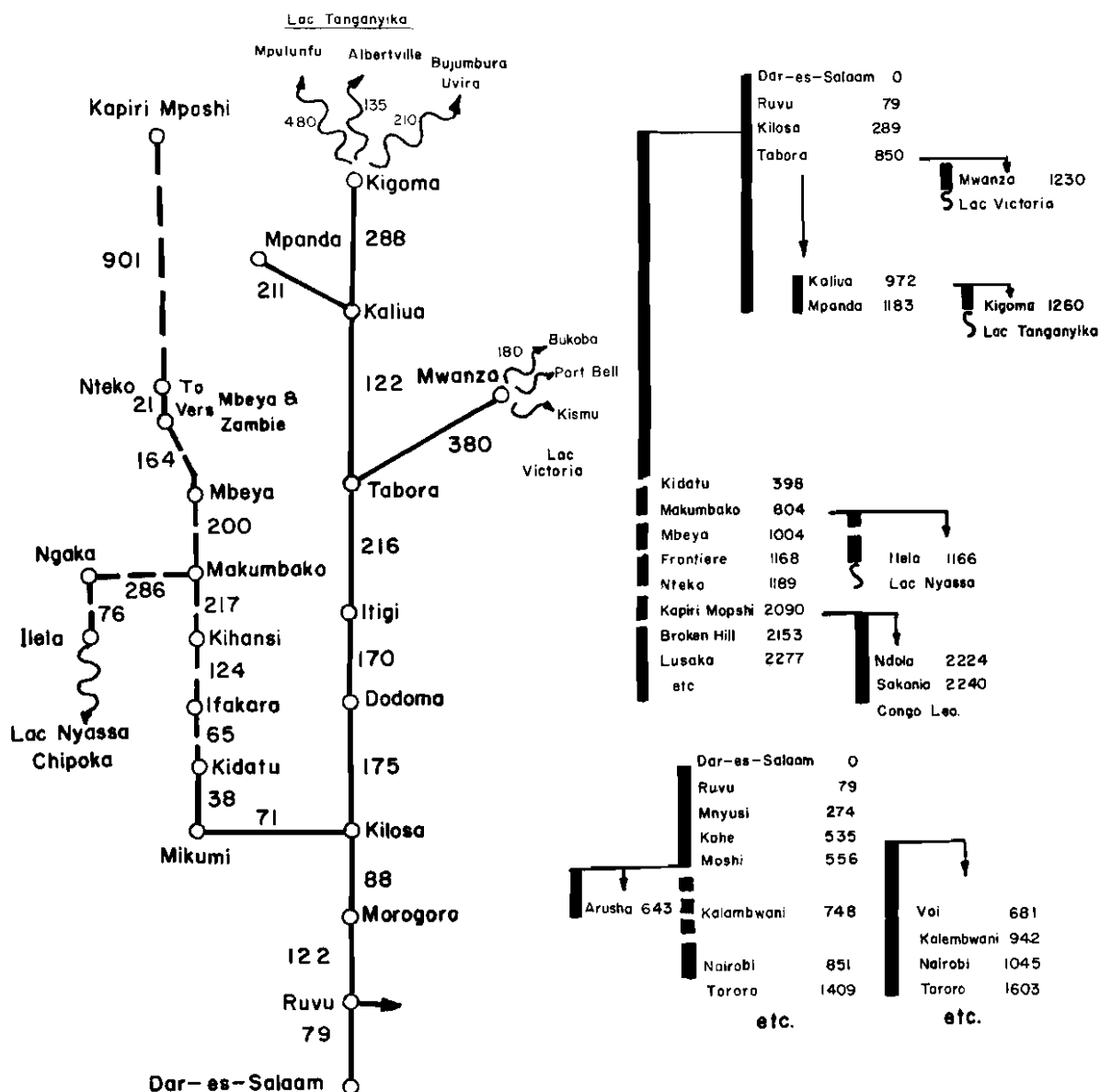
EXISTING RAILWAY
RAILWAY UNDERCONSIDERATION
PERMANENT NAVIGATION
SEASONAL NAVIGATION

CHEMIN DE FER EXISTANT	CHEMIN DE FER EN CONSIDERATION
NAVIGATION PERMANENTE	
NAVIGATION SAISONNIERE	

KENYA-UGANDA PENETRATION ROUTE VOIE KENYA-UGANDAISE



TANZANIAN PENETRATION ROUTE VOIE TANZANIANNE



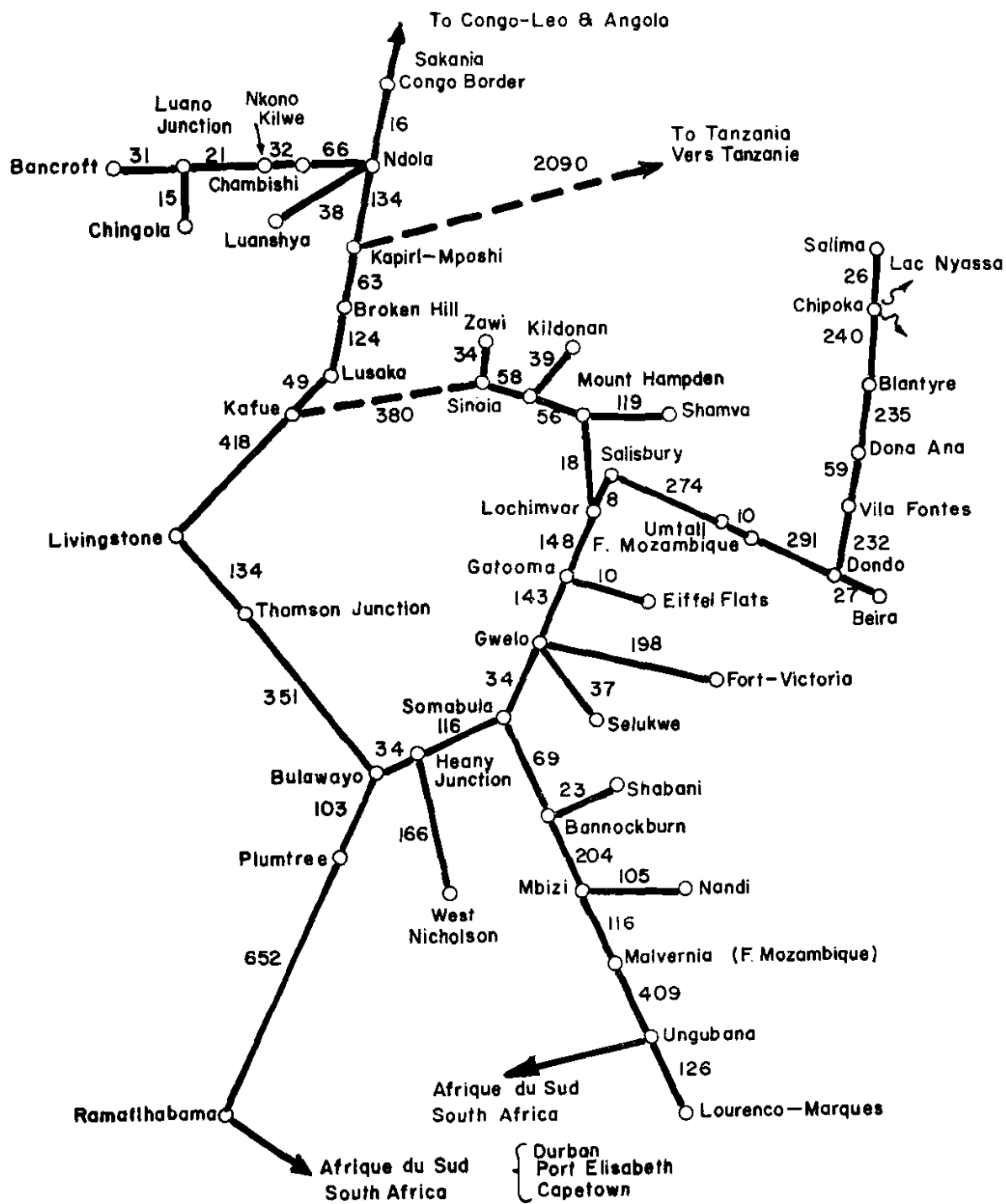
LEGEND — LÉGENDE

EXISTING RAILWAY
RAILWAY UNDER CONSIDERATION
PERMANENT NAVIGATION
SEASONAL NAVIGATION



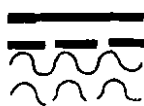
CHEMIN DE FER EXISTANT
CHEMIN DE FER EN CONSIDERATION
NAVIGATION PERMANENTE
NAVIGATION SAISONNIERE

TRANS-MOZAMBIQUE PENETRATION ROUTE VOIES TRANS-MOZAMBIQUE



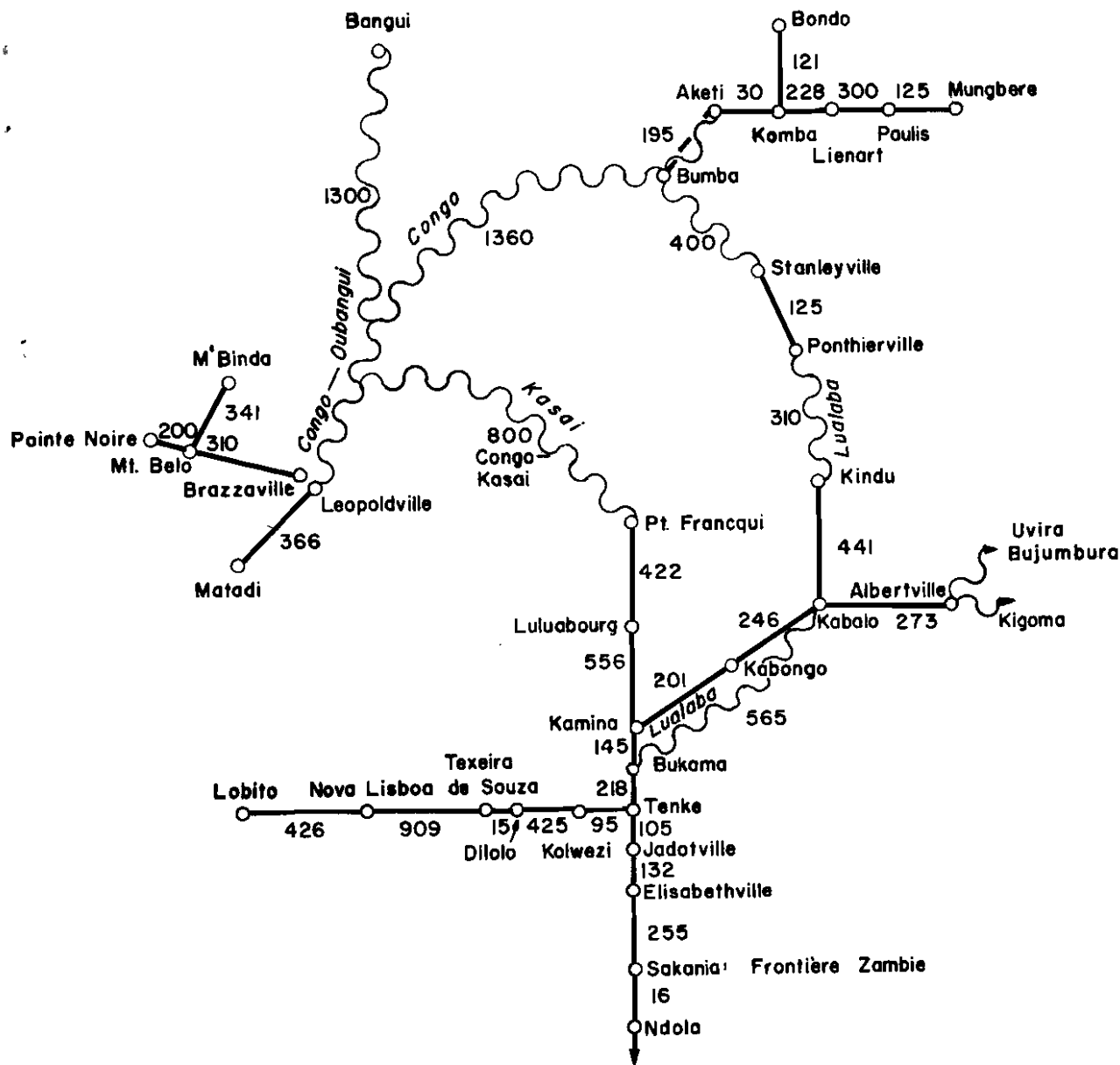
LEGEND—LÉGENDE

EXISTING RAILWAY
RAILWAY UNDERCONSIDERATION
PERMANENT NAVIGATION
SEASONAL NAVIGATION



CHEMIN DE FER EXISTANT
CHEMIN DE FER EN CONSIDERATION
NAVIGATION PERMANENTE
NAVIGATION SAISONNIERE

TRANS-ANGOLAN PENETRATION ROUTE AND CONGOLESE SYSTEM VOIE TRANS-ANGOLAISE ET SYSTEME CONGOLAIS

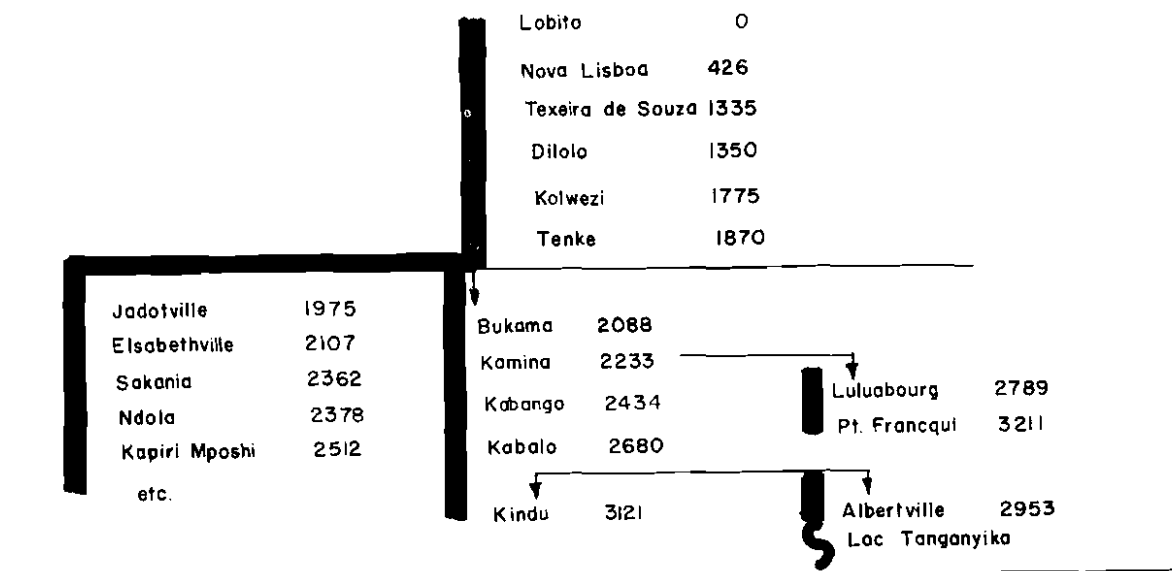


LEGEND—LÉGENDE

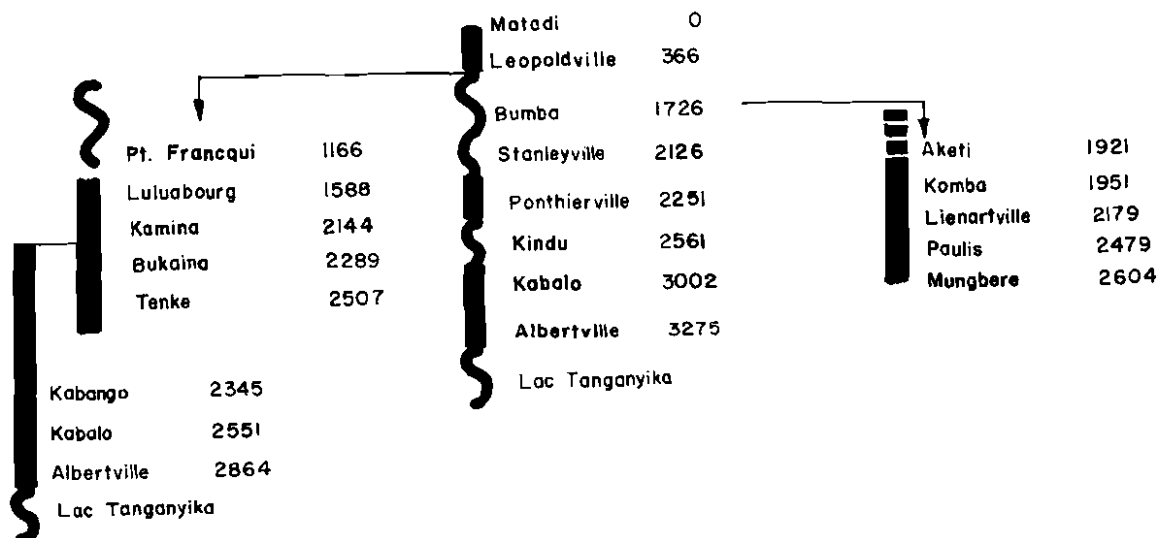
EXISTING RAILWAY		CHEMIN DE FER EXISTANT
RAILWAY UNDERCONSIDERATION		CHEMIN DE FER EN CONSIDERATION
PERMANENT NAVIGATION		NAVIGATION PERMANENTE
SEASONAL NAVIGATION		NAVIGATION SAISONNIERE

Distance in Kms.

TRANS-ANGOLAN PENETRATION ROUTE VOIE TRANS-ANGOLAISE

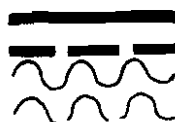


Systeme Congolais — Congolese System



LEGEND—LÉGENDE

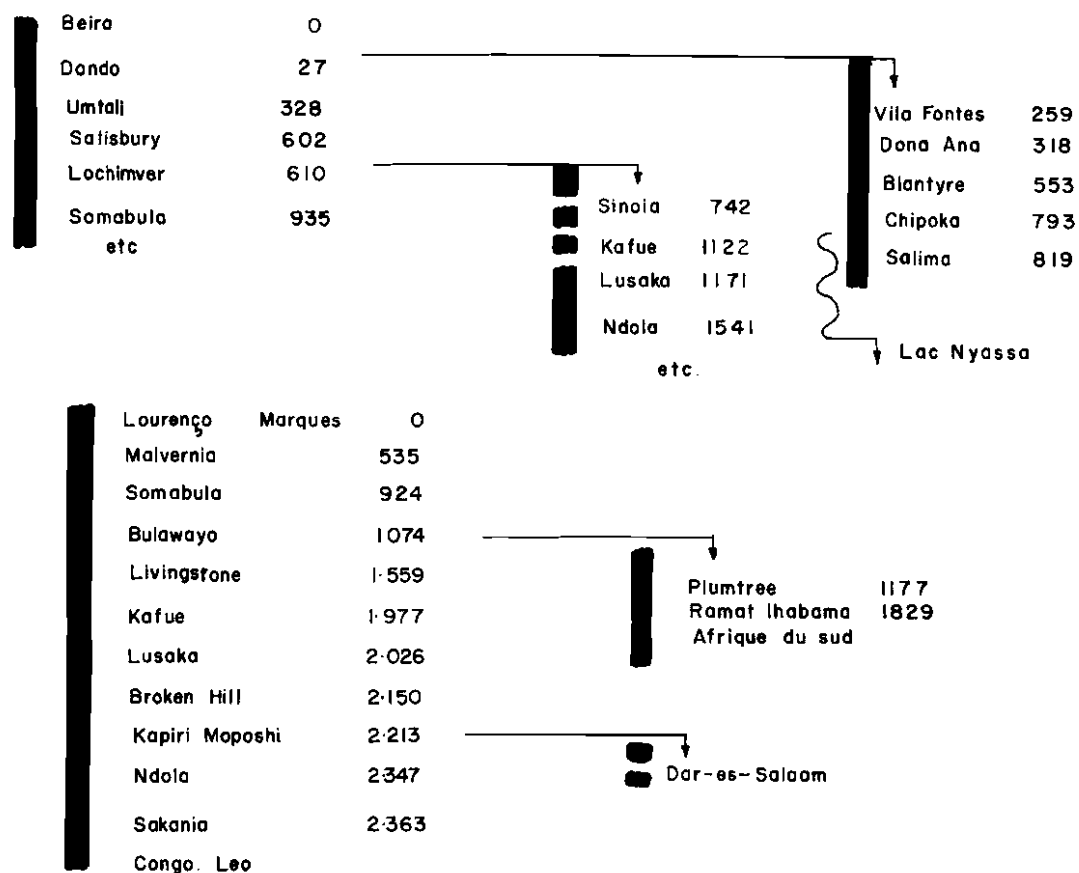
EXISTING RAILWAY
RAILWAY UNDERCONSIDERATION
PERMANENT NAVIGATION
SEASONAL NAVIGATION



CHEMIN DE FER EXISTANT
CHEMIN DE FER EN CONSIDERATION
NAVIGATION PERMANENTE
NAVIGATION SAISONNIERE

Distance in Kms.

TRANS MOZAMBIQUE PENETRATION ROUTE VOIES TRANS-MOZAMBIQUE



LEGEND—LÉGENDE

EXISTING RAILWAY

RAILWAY UNDERCONSIDERATION

PERMANENT NAVIGATION

SEASONAL NAVIGATION



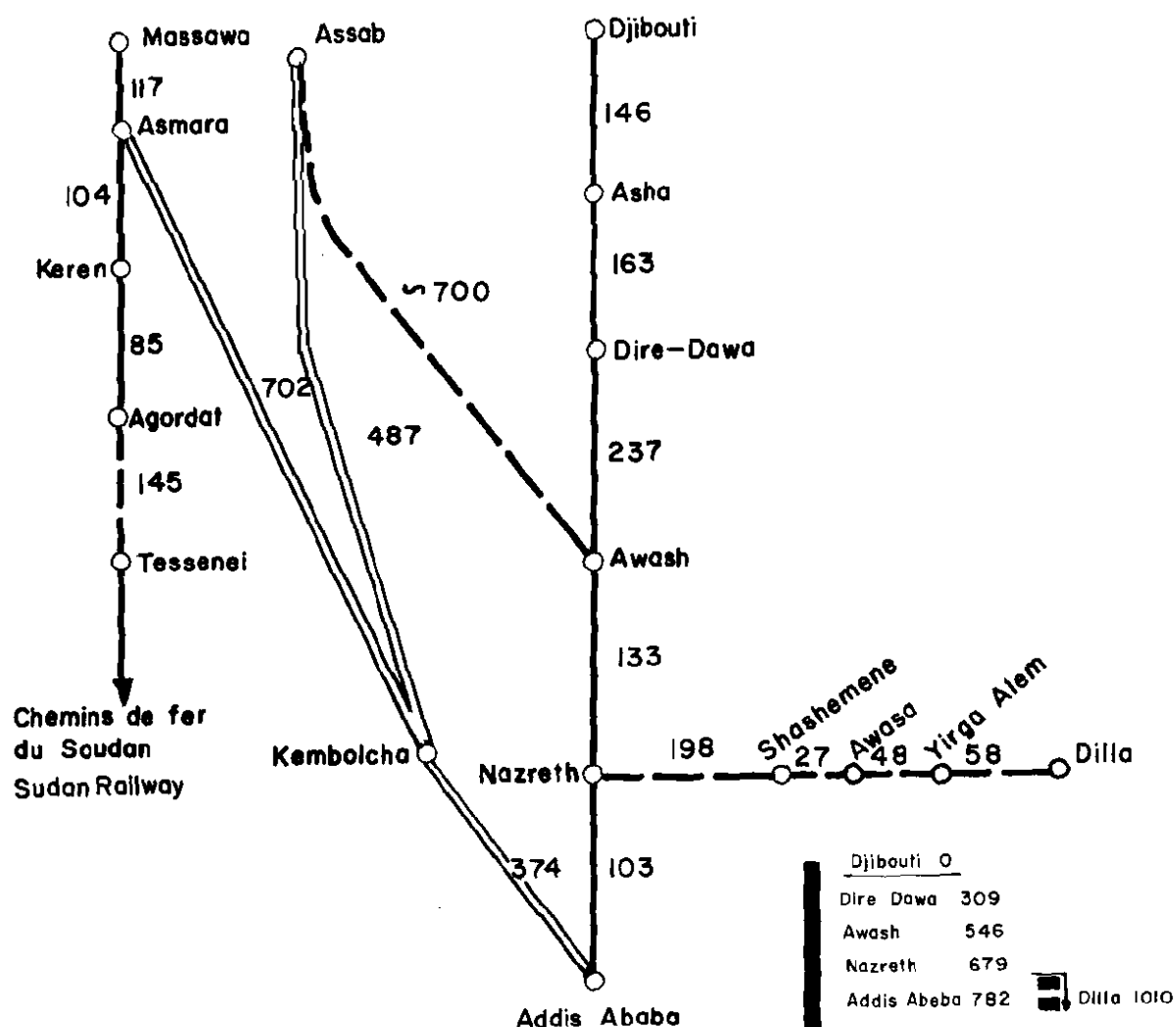
CHEMIN DE FER EXISTANT

CHEMIN DE FER EN CONSIDERATION

NAVIGATION PERMANENTE

NAVIGATION SAISONIERE

ETHIOPIAN PENETRATION ROUTE VOIES ETHIOPIENNES



LEGEND—LÉGENDE

EXISTING RAILWAY		CHEMIN DE FER EXISTANT
RAILWAY UNDERCONSIDERATION		CHEMIN DE FER EN CONSIDERATION
ROAD		ROUTE

CART-M-66-5

Distance in Kms.