### HEADQUARTERS U.S. STRATEGIC BOMBING SURVEY (PACIFIC)

C/O POSTMASTER, SAN FRANCISCO

INTERROGATION NO: 394

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minimum skyloner i Division of Origin: Medical Division

Addition (Snothed) thought skirt. Subject: Medical Supplies; Drug Imports for 1941; other statisti

Personnel interrogated and background of each:

Dr KIMATSU, I - Head of Pharmaceutical Affairs Section, OSAKA Fu.

Where Interviewed: Prefectural Office, OSAKA

Interrogator: Harold B. Hilton, Lt Col, MAC

Interpreter: Mr Matsuno

Allied Officers Present: None

SUMMARY

Dr KIMATSU stated that since 1943, drugs had become so scarce that there was bad health all over Japan. After the bombings there were some stocks still remaining, and the people can use them, but according to the Doctor, vaccines and serums are not available. Asperin and phenacetin are very scarce.

In addition to the data given in the following charts, Dr KIMATSU submitted a list of the leading factories that were bombed, the location, date of bombing, principal products made in each factory, and the percent of bomb damage. From the information he provided, it should be possible to analyze the extent of damage to drug manufacturing in Japan, providing these tables can be checked for accuracy of factual content.

This list is not being translated.

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#### RESTRICTED

## Japanese Imports of Drugs in 1941

From UNITED STATES  Item	Quantit <u>Kilogra</u>		Quantity Kilograms
Benzoic Acid	92,500	Pyridine (sulfapyri	dine) 16,777
Acetaceticester	132,330	Insulin	
(Amidopyrin Vitamin Bl)		Barbital	10,364
Iso-amylalcohol	11,000	Cacao Butter	40,000
(Bromisovaleriaryl-urea)		Phenolphthalein ·	
Emetin Hydrochloride	10	Chloral Hydrate	15,995
(194040 kilograms		Milk Sugar (Lactose)	3,400
Cascara Sagrada Senega (senega snakeroot)	37,730	T :	
Senega (senega snakeroot)	30,055	Resorcin	25,000
Calcium Glycerophosphate			4,000
Ergot	4,000	*Borax	
Thymol (19407,500 kg)	1,000	*Boric Acid	1,800,000
*These two figures include	imports for	industrial purposes	
From GERMANY			
Atophanyl	* 2,100	Thebaine	200
Creosote	66,000	Narcotine	100
Germanin	400 Amo	Atebrin & Prasmochin	2
Theobromine	11,200		
rom SWITZERLAND		South State of the section of the section of	
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Silocarpine Hydrochloride apaverin Hydrochloride Supercaine	4.5 40 80 170	Apomorphine Hydrochlor Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1940 Chlorine Acetate (tt)	ride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 (1940) 1 (1940) 288
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Pilocarpine Hydrochloride Papaverin Hydrochloride Sulphate Trom NETHERLANDS Quinine Sulphate	4.5 43 40 80	Apomorphine Hydrochlor Homatropin Hydrobromi Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1940)	ride(1940) 3 ride (1940) 2. ide (1940) 8 o) 6
Atropine Sulphate (194090 kg) Pilocarpine Hydrochloride Papaverin Hydrochloride Supercaine  Trom NETHERLANDS  Quinine Sulphate  Trom SOUTH AMERICA	4.5 40 80 170	Apomorphine Hydrochlor Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1940 Chlorine Acetate (tt)	ride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 (1940) 288
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) ilocarpine Hydrochloride apaverin Hydrochloride upercaine  rom NETHERLANDS  uinine Sulphate  rom SOUTH AMERICA	4.5 40 80 170	Apomorphine Hydrochlor Homatropin Hydrobromi Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1960 Chlorine Acetate (tt))  Cincona Bark	ride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 (1940) 1 (1940) 288
Crom SWITZERLAND  Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Filocarpine Hydrochloride Apaverin Hydrochloride Apaverin Hydrochloride Apaverine  From NETHERLANDS  Sulphate  From SOUTH AMERICA  Pecac	4.5 40 80 170	Apomorphine Hydrochlor Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1940 Chlorine Acetate (tt)	ride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 (1940) 1 (1940) 288
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Pilocarpine Hydrochloride Papaverin Hydrochloride Supercaine  From NETHERLANDS  Quinine Sulphate  From SOUTH AMERICA  pecac opaiva	4.5 40 80 170	Apomorphine Hydrochlor Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1940 Chlorine Acetate (tt)  Cincona Bark  Jalap	ride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 140) 1 (1940) 288
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Pilocarpine Hydrochloride Papaverin Hydrochloride Supercaine  Prom NETHERLANDS Quinine Sulphate  Prom SOUTH AMERICA  pecac opaiva  rom INDIA  ubeb	4.5 40 80 170 51,000	Apomorphine Hydrochlor Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1960 Chlorine Acetate (tt))  Cincona Bark  Jalap Condurango Bark	Pride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 10,007 99,841
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Silocarpine Hydrochloride Sapaverin Hydrochloride Supercaine  Trom NETHERLANDS Suinine Sulphate  Trom SOUTH ALERICA  pecac opaiva  Trom INDIA  ubeb enna Leaves	4.5 40 80 170 51,000 11,497 21,600	Apomorphine Hydrochlor Homatropin Hydrobromic Eserin Sulphate (1940) Eserin Salicylate (1940) Cincona Bark  Cincona Bark  Jalap Condurango Bark  Santal Wood (1940)	ride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 140) 1 (1940) 288
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Filocarpine Hydrochloride Papaverin Hydrochloride Papaverin Hydrochloride Papaverin Hydrochloride Papaverine Sulphate  From NETHERLANDS  Quinine Sulphate  From SOUTH AMERICA  Pecac  Opaiva  Tom INDIA  Tubeb  The sulphate Papaverin Hydrochloride Papaverin Hydrochloride  The sulphate Papaverin Hydrochloride Papaverin Hydrochloride  The sulphate Papaverin Hydrochloride Papaverin Hydrochloride  Tom NETHERLANDS  Tom INDIA  Tom INDIA  Tom INDIA  Tom INDIA	4.5 40 80 170 51,000 11,497 21,600	Apomorphine Hydrochlor Homatropin Hydrobromic Eserin Sulphate (1940) Eserin Salicylate (1940) Cincona Bark  Cincona Bark  Jalap Condurango Bark  Santal Wood (1940)	Pride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 040) 1 (1940) 288  855,533  10,007 99,841
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Pilocarpine Hydrochloride Papaverin Hydrochloride Pupercaine  Trom NETHERLANDS Puinine Sulphate  Trom SOUTH AMERICA  Pecac  Opaiva  Trom INDIA  Tubeb  Tenna Leaves Lso other drugs from plant	4.5 40 80 170 51,000 11,497 21,600	Apomorphine Hydrochlor Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1940 Chlorine Acetate (tt)  Cincona Bark  Jalap Condurango Bark  Santal Wood (1940)  Catechu (Tannin), Hom	Pride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 040) 1 (1940) 288  855,533  10,007 99,841  95,450 ica(Strychnine
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Pilocarpine Hydrochloride Papaverin Hydrochl	4.5 40 80 170 51,000 11,497 21,600	Apomorphine Hydrochlor Homatropin Hydrochlor Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1960 Chlorine Acetate (tt))  Cincona Bark  Cincona Bark  Santal Wood (1940)  Catechu (Tannin), Homatropin Hydrobromi (1940-2,700)	pride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 040) 1 (1940) 288  855,533  10,007 99,841  95,450 ica(Strychnine kg) 1,707
Scopolamine Hydrochloride Atropine Sulphate (194090 kg) Pilocarpine Hydrochloride Papaverin Hydrochloride Supercaine  From NETHERLANDS  Quinine Sulphate  From SOUTH AMERICA  Pecac Popaiva  Tom INDIA  Tubeb Tenna Leaves Lso other drugs from plant	4.5 40 80 170 51,000 11,497 21,600	Apomorphine Hydrochlor Homatropin Hydrobromi Eserin Sulphate (1940 Eserin Salicylate (1940 Chlorine Acetate (tt)  Cincona Bark  Jalap Condurango Bark  Santal Wood (1940)  Catechu (Tannin), Hom	Pride(1940) 3 ride (1940) 2. ide (1940) 8 0) 6 040) 1 (1940) 288  855,533  10,007 99,841  95,450  ica(Strychnine

The following drugs were unavailable in Japan after June 1942:

Emetin Hydrochloride Ergot Vaselin Sautonin Scopolamine Hydrochloride Pilocarpin Thebaine Apomorphin Hydrochloride Hydrochloride Ipec Roots Theobromine Homatropin Hydrochloride Cacao Butter Quinine From Siam. During the war these three items came Cinchona Bark from the Dutch East Indies. Chaulmoogric Seeds (oil)

In 1943, Japan was able to manufacture: \*

Drug	Quantity	Name & Location of Factory
Thymol Benzoic Acid Calcium Glycerophosphate Milk Sugar Casein Barbital Phenolphthalein	6.201 13.904 247.175 ? 5.623 6.365	HOKKAIDO Chemical Industry Co MITSUI Chemical TAKEDA: IWAKI ARAKAMA HOKKAIDO KONO-KOSHA TAKEDA: DAI ICHI: SHIONOGI MITSUI
Chloral Hydrata Resorcin Sautonin *This list only includes	6.562 275. former importa	DAI ICHI NAIKOKU CHEMICAL Co. NIPPON SHINYAKU Co. ations from other countries.

DRUG .	IMPORTS IN	YEN	VALUE	FOR	1941
German Switze Nether South India	d States  ny erland rlands America (English) Countries	Y	4,	205, 668, 190, 134, 214, 971,	362 776 886 789 789
TOTAL		Y	11,	602,	484

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# HEADQUARTERS U.S. STRATEGIC BOMBING SURVEY (PACIFIC) APO #234 C/O POSTMASTER, SAN FRANCISCO

INTERROGATION NO. 194  (Obtain from G-2)	PLACE Osaka, Japan DATE 17 Nov 45
Division of Origin Medical Division	
Subject: Medical Supplies; Drug Imports for 1941	; Other Statistics.
Personnel interrogated and background of ended of Pharmaceutical Affairs Section, Osaka	ach: Dr KIMATSU, Ichiro,
Where interviewed Prefectural Office, Osaka	
Interrogator Harold B Hilton, Lt Col, MAC.	
Interpreter Mr Matsuno	
Allied Officers Present None	Page to delicate the special content of the second of the

Summary: Dr Kimatsu stated that since 1943, drugs had become so scarce that there was bad health all over Japan. After the bombings there were some stocks still remaining, and the people can use them, but according to the Doctor, vaccines and serums are not available. Asprin and phenacetin are very scarce.

In addition to the data given in the following charts, Dr Kimatsu submitted a list of the leading factories that were bombed, the location, date of bombing, principal products made in each factory, and percent of bomb damage.\* From the information he provided, it should be possible to analyze the extent of damage to drug manufacturing in Japan, providing these tables can be checked for accuracy of factual content.

\* This list is now being translated.

## Japanese Imports of Drugs in 1941

	Quantity		Quantity
Item	Kilograms	Item	Kilograms
Benzoic Acid	92,500	Pyridine (sulfapyridine)	16,777
Acetaceticester	132,330	Insulin	600 c.c.
(Amidopyrin Vitamin B1)		Barbital	10,364
Iso-amylalcohol	11,000	Cacao Butter	40,000
(Bromisovaleriaryl-urea)		Phenolphthalein	15,995
Emetin Hydrochloride	10	Chloral Hydrate	3,400
(194040 kilograms)		Milk Sugar (Lactose)	302,714
Cascara Sagrada	37,730	Liquid Paraffin	25,000
Senega (senega snakeroot)	30,055	Resorcin	4,000
Calcium Glycerophosphate	7,500		4,000
Ergot		*Borax	1,800,000
Thymol (19407,500 kg)		*Boric Acid	360,000
*These two figures include	•		300,000
rom GERMANY	AND AND ASSESSMENT OF THE PROPERTY OF THE PARTY OF THE PA		THE STREET STREET, STR
Atophanyl	2,100	Thebaine	200
Creosote	66,000	Narcotine	200
Germanin			100
Theobromine	400 Amp 11.200	Atebrin & Prasmochin	?
CINTIFY TO TAKE	The state of the s		
rom SWITZERLAND			
Scopolamine Hydrochloride	4.5	Apomorphine Hydrochloride	
Atropine Sulphate	43	Homatropin Hydrochloride	(1940) 2.5
(194090 kg)		Homatropin Hydrobromide	(1940) 8
Pilocarbine Hydrochloride	40	Eserin Sulphate (1940)	6
Papaverin Hydrochloride	80	Eserin Salicylate (1940)	1
Nupercaine	170	Chlorine Acetate (tt) (1	940) 288
rom NETHERLANDS			The Colonial States of Marie States of the State of the S
Quinine Sulphate	51,000	Cincona Bark	855,533
rom SOUTH AMERICA			
Ipecac	11,497	Jalap	10,007
Copaiva	21,600	Condurango Bark	99,841
rom INDIA	100mm F 14 15 18 F 16 16 16 16 16 16 16 16 16 16 16 16 16	THE PARTY OF THE PROPERTY OF T	ACM CALL SHOW SHOW THE SHOW TH
Cubeb	19,700	1 Contol Wass (2010)	0- 1-0
Senna Leaves	89,800	Santal Wood (1940)	95,450
Also other drugs from plant		Catechu (Tannin). Homica	(Strychnine).e
rom SOVIET RUSSIA:	National National National Conference (1995) (1995) (1996	Santonin (19402,700 kg	(1) 15 15 15 15 15 15 15 15 15 15 15 15 15
rom SIAM:	ear of the figure of the second of the secon	Chaulmoogric Seeds	A CONTRACTOR OF THE PARTY OF TH
	THE THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PART	AND DECISION OF THE PROPERTY O	179,000
TITI ARTON OF ON A TOTAL			
rom FRANCE OR SPAIN			
rom FRANCE OR SPAIN Uva Ursi Leaves	32,000	Gentian Roots (1940,118,	000 kg) 26.000

The following drugs were unavailable in Japan after June 1942: Emetin Hydrochloride Ergot Vaselin Sautonin Scopolamine Hydrochloride Pilocarbin Hydrochloride Thebaine Apomorphin Hydrochloride Homatropin Hydrochloride Ipec Roots Theobromine Cacao Butter Quinine From Siam. During the war these three items came Cinchona Bark from the Dutch East Indies. Chaulmoogric Seeds (oil)

In 1943. Japan was able t	to manufacture: *	
Drug	Quantity	Name & Location of Factory
Thymol	6.201	Hokkaido Chemical Industry Co
Benzoic Acid		Mitsui Chemical
Calcium Glycerophosphate	13.904	Takeda; Iwaki
Milk Sugar	247.175	Arakawa
Casein	?	Hokkaido Kono-Kosha
Barbital	5.623	Takeda; Dai Ichi; Shionogi
Phenolphthalein	6.365	Mitsui
Chloral Hydrata		Dai Ichi
Resorcin	6.562	Naikoku Chemical Co.
Sautonin	275.	Nippon Shinyaku Co.
vm:		

\*This list only includes former importations from other countries.

DRUG IMPORTS IN YEN	VALUE FOR 1941
United States	¥ 3,205,773
Germany	668,362
Switzerland	190,776
Netherlands	4,134,886
South America	216,177
India (English)	214,789
Other Countries	2,971,721
TOTAL	¥11,602,484