Russian Economic History

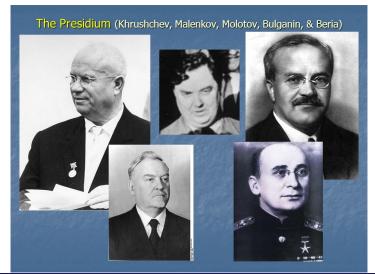
Lecture 7: Postwar Developments

Econ 472

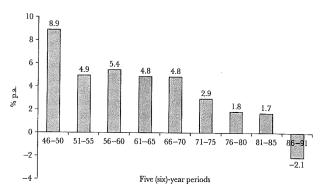
Fall 2020

Successors to Stalin

The Big Five

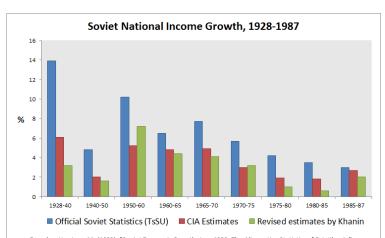


Soviet GNP: Average Annual Growth Rates, 1945-1991



Soviet Income Growth Rates

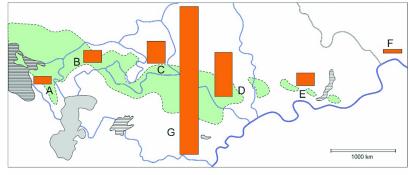
Growth in Different Periods



Based on Harrison, M. (1993), "Soviet Economic Growth since 1928: The Alternative Statistics of G. I. Khanin", Europe-Asia Studies 45(1), 141-167.

Agriculture Virgin Lands Campaign

Extent and areas of the Virgin Lands Campaign during the first 3 years (1954 to 1956)



- A North Caucasus region
- B Volga region (15.000 km²)
- C Urals region (45.000 km²)
- D Western Siberia region (62.000 km²) E Eastern Siberia region (42.000 km²)
- Far East region
- G Republic Kazakhstan (255.000 km²)

Steppes and Forest Steppes

Agriculture Khrushchev and his wheat



Lecture 7: Postwar Developments Russian Economic History

Agriculture Khrushchev and Lysenko



Agriculture USSR Net Agricultural Production per-capita

USSR Net Agricultural Production per-capita

} ,	1940	1950-53 average
Grain	238.4	247.9
Potatoes	194.6	172.8
Green vegetables	50.1	41.2
Milk	144.2	144.8
Meat	24.5	27.5
Eggs (units)	58.9	68.0

Source: Johnson and Kahan 1959, p. 210.

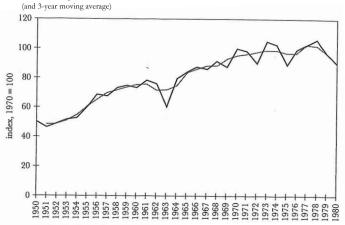
Agriculture Net Farm Output

Soviet Net Farm Output per capita (kg) and Agricultural Value Added

	1950-53	195558
Grain	247.9	297.6
Potatoes	172.8	163.2
Green vegetables	41.2	56.4
Milk	144.8	200.9
Meat	27.5	34.8
Eggs (units)	68.0	95.1
Value added in agriculture (1970 = 100)	49.3	67.3
Value added in agriculture as % GNP (1970 factor cost)	28.0	28.3

Agriculture Value Added, 1950-1980

Soviet Agriculture: Value Added, 1950-80



Income Comparison Real Incomes and Consumption

Soviet Real Incomes and Consumption Levels, 1937-55 (1937-100)

Jasny (per capita real incomes in 1927–28 prices)		Chapman (per capita private consumption in adjusted year 1937 prices)		
1940	86	96		
1944	_	66		
1948	74	_		
1950	97	114		
1952	113		* * * * * * * * * * * * * * * * * * *	
1955	135	159		

Housing Khrushchyovka



Housing Khrushchyovka

Brick Khrushchyovka in Tomsk



Housing Khrushchyovka

Panel Khrushchyovka in Tomsk



Housing Construction

Soviet Urban Housing Construction, 1946-55

(million square meters of total living space)

1946-50	1951–55	1956-60	1961–66
127.1	178.1	337.8	394.4

Soviet Growth Rates Output and Capital per Worker

Soviet Growth, Various Estimates 1928-1987

period	Industry Official	Industry Western	Total Economy Western
Growth rate of			
output per worker			
1928-1987	6.3	3.4	3.0
1928-1939	12.5	5.0	2.9
1940-1949	0.1	-1.5	1.9
1950-1959	8.9	6.2	5.8
1960-1969	5.7	2.8	3.0
1970-1979	5.2	3.4	2.1
1980-1987	3.4	1.5	1.4
Growth rate of			
capital per worker			
1928-1987	6.2	3.2	4.9
1928-1939	11.9	6.5	5.7
1940-1949	1.5	-0.1	1.5
1950-1959	8.0	3.9	7.4
1960-1969	6.1	3.4	5.4
1970-1979	6.3	4.1	5.0
1980-1987	5.6	4.0	4.0

Soviet Growth TFP Growth

Table 2: Total Factor Productivity Growth Rates, western estimates source: Easterly and Fischer (1994)

Period	Industrial sector	$G\!N\!P$
4000 4040		
1928-1940	1.7	-1.2
1940-1950	-1.1	-0.2
1950-1960	6.1	1.3
1960-1970	1.9	-0.1
1970-1980	2.4	-0.8
1980-1987	-0.1	-1.2

Soviet Type Economies Women's Labor Force Participation

Labor Force Participation Rates for Women, age 40-45.

	1950	1970	1985
Socialist Countries			
Bulgaria	78.6	88.5	93.3
Czechoslovakia	52.3	79.9	92.4
East Germany	61.9	79.1	86.1
Hungary	29.0	69.4	84.7
Poland	66.4	79.5	84.7
Romania	75.8	79.5	85.1
Soviet Union	66.8	93.2	96.8
North European Countries	30.9	53.8	71.1
West European Countries	34.5	46.4	55.6
South European Countries	22.4	29.7	37.1

Soviet Economy Sectoral Distribution of Capital Stocks

Sectoral Distribution of Capital Stocks, 1987 (percent)

	Agriculture	Industry	Dwellings	Other
Soviet Union	14.2	32.2	18.6	35.0
Industrial Market Economies	5.0	23.4	35.9	35.6
United States	2.8	22.4	45.6	29.2
Finland	7.5	19.9	33.8	38.8
Federal Republic of Germany	3.6	20.1	44.2	32.1

Soviet Economy Raw Material and Energy Intensity

Indicators of Raw Materials and Energy Consumption, 1988

	USSR	USA	Germany	Japan
Crude Steel production				
(millions of metric tons)	280	19	11	34
ratio USSR to		14.7	25.5	8.2
Refined Copper Production				
(thousands of metric tons)	1,173	381	114	307
ratio USSR to		4.5	15	5.6
Primary aluminum production				
(thousands of metric tons)	4,116	809	200	11
ratio USSR to		5.1	20.6	374.2
Synthetic rubber production				
(thousands of metric tons)	4,262	477	132	418
ratio USSR to		8.9	32.3	10.2
Primary energy consumption				
(millions of bbls/day oil equivalent)	46	8	1	2
ratio USSR to		5.8	46	23
source: Handbook of Economic Statistics,				
CIA (1989), IFS, IMF; and the Economist.				

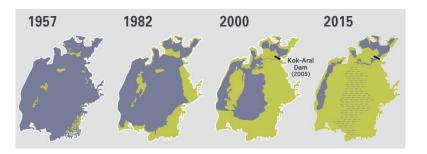
Soviet Economy and Environment Aral Sea

The Aral Sea: Before



Soviet Economy and Environment Aral Sea

Timeline of the Aral Sea



Soviet Economy and Environment Aral Sea

Impact of Aral Sea Receding



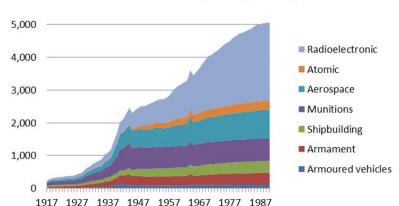
Hypermilitarization Distribution of Defense Enterprises

Major Defense Enterprises in Russia



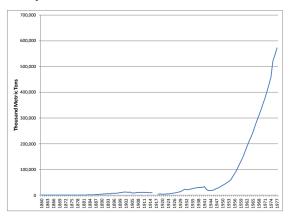
Hypermilitarization Growth of Defense Enterprises

The number of Soviet defence plants by industry, 1917-1991



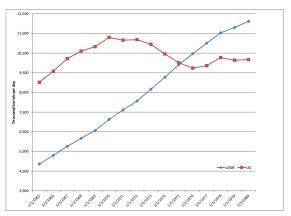
Soviet Economy History of Russian Oil Production

History of Russian Oil Production, 1860 to 1977



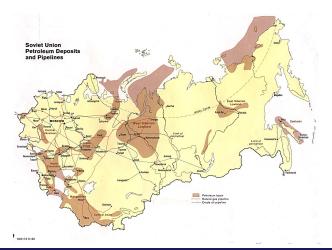
Soviet Economy Soviet and US Oil Production

Soviet and US Oil Production, 1965-1980



Soviet Economy Location of Soviet Oil Production

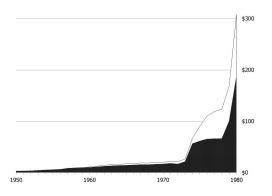
Oil Regions of the Soviet Union



Soviet Economy Soviet Oil and Gas Rents

Soviet Oil and Gas Rents 1950-1980

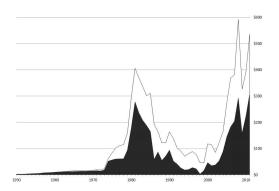
Oil rents in black, natural gas rents in white; billions of 2011 US dollars



Oil and Gas Rents

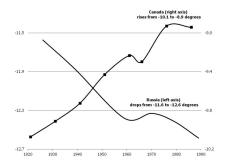
Soviet and Russian Rents

Soviet/Russian Oil and Gas Rents since 1950 with Increasing Costs of Production (billions of 2011 US dollars)



Russia and Cold TPC in Russia and Canada

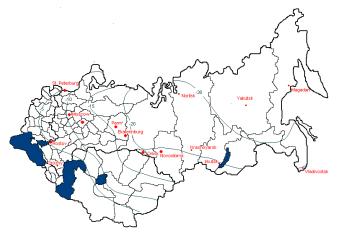
TPC in Russia and Canada During the 20th Century



Soviet Economy

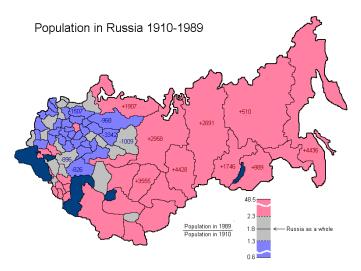
Russian Population and Temperature

Total population in Siberia and Far East in 1989 was: 37 mln. (out of 147 mln. in RF).



Cold

Russian Population Movement



Soviet Economy

Soviet Agricultural Inputs and Output

