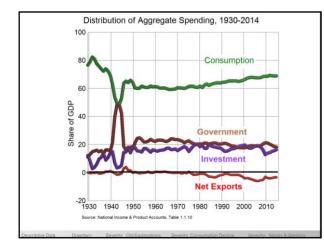
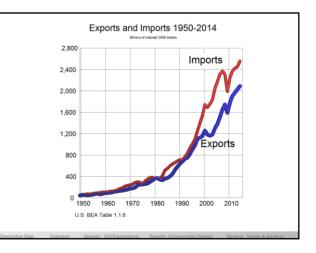
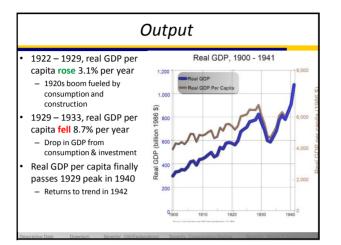


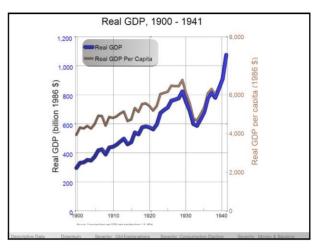
About the Term Paper

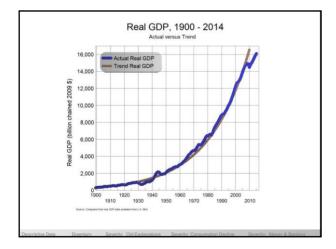
- · Be sure to read info on course website & look at rubric
- Assignment: an essay in which you evaluate an historical analogy for its ability to provide insight into a present-day issue.
 - Identify a contemporary issue;
 identify and discuss the economic history research on an apparently relevant historical episode;
 - assert whether the economic history forms a proper historical analogy to the contemporary issue;
- construct an argument that supports your assertion.
- Contemporary: after 2000
- History: before 1975
- Contemporary issue may be international, but historical analogy must be from topics in U.S. economic history covered in Econ 113.
 Any exception must be approved by Prof. Olney <u>before Spring Break</u>

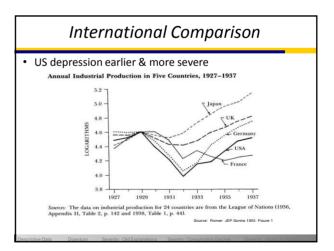


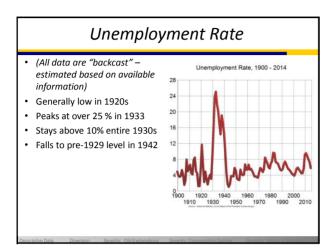


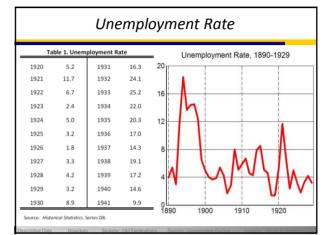












Race & Unemployment

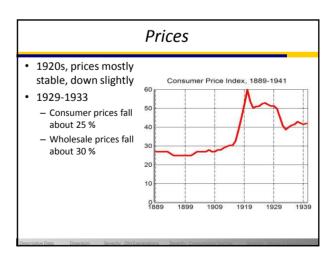
- From Sundstrom, William. "Last Hired, First Fired? Unemployment and Urban Black Workers During the Great Depression," J. Econ. History 52 (June 1992). http://www.jstor.org/stable/2123118
- Sources
 - 1930 Census
 - Special census taken in January 1931, 10 large cities
 - National Health Survey, winter 1935/36
 - Special "enumerative check" census in Nov/Dec 1937

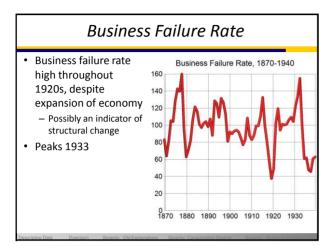
	IABLE 1 UNEMPLOYMENT RATES BY RACE, SEX, AND REGION, APRIL 1930 AND JANUARY 1931				
	Unemployment Rates (%)		Black + White	Results	
	Whites	Blacks	Rates		
Six regions, April 1930			\frown		
MALES					
United States (six regions)	6.9	6.3	0.92		
North (three regions)	8.0	14.3	1.79		
South (three regions)	4.1	4.1	0.98		
FEMALES					
United States (six regions)	4.3	4.6	1.06		
North (three regions)	4.6	8.2	1.80		
South (three regions)	3.6	3.6	1.00		
Ten cities, January 1931					
MALES					
All ten cities	27.2	40.5	1.49		
Seven northern cities	27.8	41.7	1.50		
Three southern cities	18.6	35.9	1.93		
FEMALES					
All ten cities	16.8	43.4	2.58		
Seven northern cities	16.9	45.6	2.69		
Three southern cities	14.4	36.2	2.51		
Notes: The sample includes ages Atlantic, East North Central, and East South Central, and West So Pacific, which had negligible bia Manhatan, Philadelphia, Pittsbu are Birmingham, New Orleans, a out of work, able to work, and loo The denominator of the unemple registered in the 1930 census (Ap Source: U.S. Bureau of the Censs	West North Central uth Central regions. ck populations in 19 rgh, Cleveland, Chic nd Houston. Unemp oking for a job as wel syment rate for both ril 1930).	I regions. South cons Excluded are New E 930. For January 19 ago, Detroit, and St. loyed count in Janua I as those on involunt sections is the num	sists of South Atlantic, Ingland, Mountain, and 31, northern cities are Louis; southern cities ary 1931 includes those ary layoff without pay. ber of gainful workers		
Descriptive Data Downturn	Severity: Old	Explanations Se	verity: Consumption Decline	e Severity: Money & Banking	

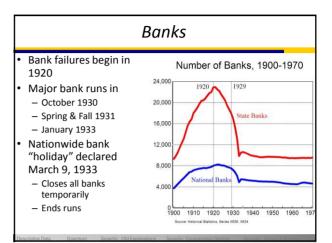
		Seeking	g Work	Seeking Work or on Relief		
	Whites (%)	Blacks (%)	Black + White Rates	Whites (%)	Blacks (%)	Black + White Rates
National Health Survey, 83	cities, win	ter 1935/3	36			\frown
Male household heads Female household heads	10.8 11.5	17.9 24.4	1.66 2.13	16.7 15.2	33.5 31.5	2.01 2.07
Enumerative check census,	late 1937		1 1			
MALES USA total Rural Urban North South FEMALES USA total Rural Urban North South	13.9 12.8 14.3 14.1 12.2 21.0 24.9 20.3 20.7 22.0	19.1 10.2 23.7 27.0 14.6 29.9 17.9 32.5 38.3 24.0	1.37 0.80 1.66 1.91 1.20 1.43 0.72 1.60 1.85 1.09	17.6 16.6 17.9 17.8 15.8 23.5 27.8 22.8 22.8 22.8 25.8	25.6 12.3 32.7 39.1 17.8 32.4 18.7 35.5 42.1 25.4	1.46 0.74 1.82 2.20 1.13 1.38 0.67 1.56 1.85 0.98
Notes: For 1935/36, househ 1937, "blacks" includes all consists of Middle Atlantic consists of South Atlantic, Sources: U.S. Social Secu 479-98; and U.S. Census o Report, vol. 4, pp. 71-73, 1	nonwhite c, East N East Sout rity Board f Partial E	s aged 15 orth Cer h Centra d, Statist	to 74. USA tota ntral, and West I, and West Sout ics of Family C	l is North North Co h Central ompositio	and Sou entral reg regions. on, 1934-	th, where North gions and South 36, vol. 11, pp

	Both Sexes		Males (9	6)	F	emales (%)	
	(%)	All	North	South	All	North	South	
Black unemployment rate	40.7	39.2	39.8	35.8	43.0	46.8	30.9	
White unemployment rate	27.2	30.7	31.1	21.9	18.0	17.9	18.1	
Difference (black-white)	13.6	8.5	8.7	13.9	25.0	28.8	12.7	
Vithin-occupation effect	9.8	4.4	4.6	1.5	24.1	24.9	6.2	
Composition effect	2.0	6.4	6.2	14.2	-0.3	-0.9	1.7	
Residual Number of occupation-city observations	1.7 490	-2.4 358	-2.1 289	-1.8 69	1.2	4.8 102	4.8 30	
ouis; South consists of Birmingham, Ne	w Orlea	ns, and	Houston	n.				
Notes: North consists of Manhattan, Phila Louis; South consists of Birmingham, Ne Sources: U.S. Bureau of the Census, Fift U.S. Bureau of the Census, Fifteenth Cen-	w Orlea	ns, and nsus: i	Houston 930, Uni	n. employm	ent, vo	l. 2, pp.	470-91;	

	Capacity Util	lizatic	on Ra	te	
,	A measure of how much	Table	2. Capacity	Utilization I	Rate
	the capital stock is being	1920	94	1930	66
	used	1921	65	1931	53
	 100 minus capacity utilization rate is sort of 	1922	80	1932	42
	"unemployment rate of	1923	94	1933	52
	capital"	1924	84	1934	58
'	Peaks mid-1920s	1925	91	1935	68
'	Hits shockingly low level of 42 in 1932	1926	89	1936	80
	42 11 1932	1927	83	1937	83
		1928	82	1938	60
		1929	83	1939	72

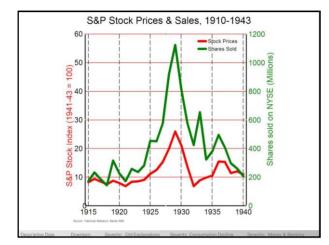


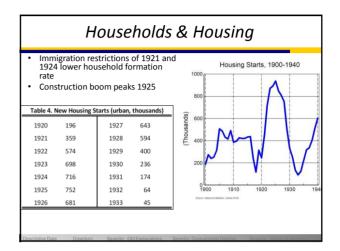




Banks						
	Table 3.	Banks Closed				
	Bank Clo	osings	total banks in	Number of Banks, 1900-1970		
	state banks	national banks	operation	24,000 1920 1929		
1920	160	7	30,291			
1921	453	52	30,456	20,000		
1922	317	49	30,120	State Banks		
1923	556	90	29,829	16,000		
1924	653	122	28,988			
1925	500	118	28,442	12,000		
1926	853	123	27,742			
1927	578	91	26,650	8,000		
1928	441	57	25,798	National Banks		
1929	595	64	24,970	4,000		
1930	1,189	161	23,679			
1931	1,884	409	21,654	0 1900 1910 1920 1930 1940 1950 1960 1		
1932	1,177	276	18,734	1900 1910 1920 1930 1940 1950 1960 1 Source Historical Statistics, Series X856 X834		
1933	2,899	1,101	14,207			

	Table 5. Stock Market, 1921-1940			
Financial Sector	_	Shares sold on NYSE (million shares per year)	Standard & Poor's Common Stock index (1941-43=100)	
Stock Market	1921	173	69	
	1922	259	84	
 Peaks in September 1929 	1923	236	86	
 Crashes October 24 & October 29, 	1924	282	90	
	1925	454	111	
1929	1926	451	126	
 Doesn't get back to 1929 peak until 	1927	577	153	
5	1928	920	199	
1951	1929	1,125	260	
	1930	810	210	
28 S&P Stock Prices (1941-43=10)	1931	577	137	
24	1932	425	69	
20	1933	655	90	
	1934	324	98	
	1935	382	106	
12	1936	496	155	
8 ~~~ V	1937	409	154	
4	1938	297	115	
1910 1920 1930 1940	1939	262	121	
Ť910 1920 1930 1940	1940	208	110	





Bad Mortgage Debt

- Non farm foreclosures up, peak in 1933
- Farm foreclosures up as well
 - high farm mortgage debt
 - low farm earnings
 - too much WWI expansion

	able 6. Foreclos		A THE CALL
	Nonfarm (thousands of foreclosures)	Farm (rate per 1,000 farms)	KEY
1926	68	17.4	
1927	91	18.2	9.49 to 27.53*
1928	116	17.6	more than 27.5
1929	135	14.7	V D
1930	150	15.7	NFT-
1931	194	18.7	A A
1932	249	28.4	LI- CRAS
1933	252	38.8	1111111
1934	230	28.0	KEY KEY
1935	229	21.0	See Figure 1/
1936	185	20.3	A HITA
1937	151	18.1	h stand
1938	118	14.3	V V
1939	100	13.5	
1940	76	12.6	FIGURE 1 AVERAGE NUMBER OF FARM FORECLOSURES PER THOUSAND FARMS
			(A. 1926–1930 AND B. 1931–1940) Notes: * one standard deviation below mean
			** within one standard deviation of mean
			*** one standard deviation above mean For descriptive statistics and sources, see Table 2.

Interest rates move every which way

- Nominal rates on government bonds: STABLE

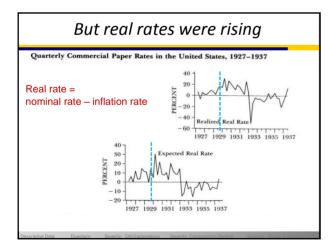
 Fed began tightening, January 1928
- Nominal rates on prime commercial paper: DOWN

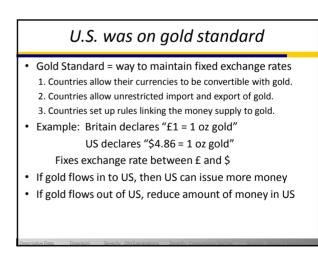
 From 5.8 to 1.7 percent
- Nominal Rates on BAA bonds (not in table): UP – From 6 to 11.5 percent

Interest Rates

Nominal rates moved in both directions!

	FRB-NY Discount Rate	Banks' Business Loan Rate	Prime Commercial Paper Rate	Yield on Federal Government Bonds	Yield on Corporate Aaa Bonds
1928	3.5-5.0	5.2	4.8	3.3	4.6
1929	4.5-6.0	5.8	5.8	3.6	4.7
1930	2.0-4.5	4.9	3.6	3.3	4.6
1931	1.5-3.5	4.3	2.6	3.3	4.6
1932	2.5-3.5	4.7	2.7	3.7	5.0
1933	2.0-3.5	4.3	1.7	3.3	4.5





Interest rates & gold standard

- Gold flows in to the U.S. if foreigners are buying
 - U.S. goods and services
 - U.S. financial assets
- Monetary authorities in the U.S. can encourage gold inflows or stop gold outflows by making U.S. financial assets more attractive to foreigners
 - Increase in U.S. interest rates (relative to foreign interest rates)
- Conversely: if U.S. decreases interest rates, that will lead to gold outflows as foreigners move wealth out of the U.S. and into foreign assets

Gold standard

• Relevant timing

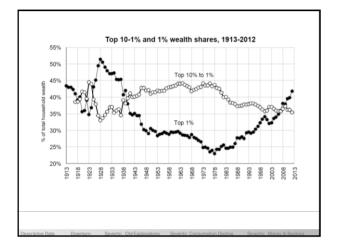
- Britain goes off gold in September 1931
- Financial types worldwide fear U.S. will also go off gold
 Which could eliminate fixed exchange rates with other currencies
- Fed increased interest rates to stem gold outflow
- U.S. suspends gold convertibility in 1933
 - Re-establishes gold standard in January 1934, but two changes
 \$35 per oz. of gold rather than \$20.67 per oz.
 - 2. People couldn't hold gold coins, only Treasury could

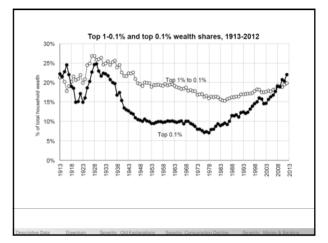
Wealth Distribution Worsens

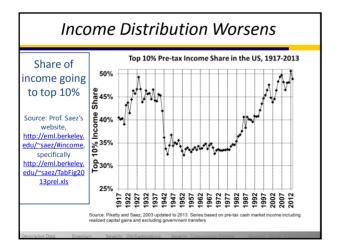
- Wealth distribution becomes more skewed in 1920s
- The next 3 slides are from a presentation by Saez & Zucman
- Source for next 3 slides, Prof. Saez's website
 - http://eml.berkeley.edu/~saez/SaezZucman14slides.pdf

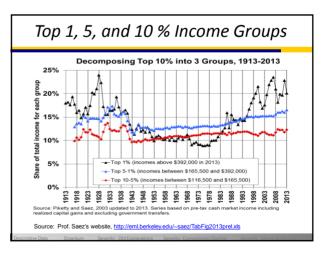
- Slides 23-25











Components of GNP

• GNP = C + I + G + NX

• C & I contribute the most to drop in real GNP

Table 8. Sources of Drop in Real GNP

		Share of Drop in GNP Due to:					
	% Δ Real GNP	Consump- tion	Inventory Investment	Fixed Investment	Net Exports	Government Purchases	
1921	-2.4	-195	256	51	43	-56	
1930	-9.3	46	24	38	2	-10	
1931	-6.2	38	3	62	6	-9	
1932	-15.8	50	20	26	1	4	
1933	-3.0	66	4	19	9	3	
1938	-5.5	22	94	38	-26	-28	

Consumption Spending

 Consumption 	Table 9. Real Consumption Spending, 1929-1930			
collapses in 1930		% change	Contribution to change in total C	
	Total C	-6.2 %	100.0 %	
 Nearly all categories 	Food & tobacco	-2.2	9.6	
of C decline	Clothing & shoes	-9.8	15.1	
of c decline	Personal care	-4.6	1.2	
	Housing	-1.2	1.7	
	Household operation	-7.1	15.7	
	Medical care	-0.9	0.9	
	Personal business	-15.3	33.0	
	Transportation	-14.5	23.5	
	Recreation	-3.9	3.2	
	Education & research	4.0	-0.9	
	Religion & welfare	5.9	-1.7	

	Negative Net Investment									
Tab	ele 10. investment as		Net investment = gross							
	Gross Investment / GNP	Net Investment / GNP	investment (I) – depreciation							
1929	15.7	8.7	 Measures additions to capital 							
1930	11.4	3.1	stock							
1931	7.4	-1.7	Negative net investment							
1932	1.7	-8.8	means gross investment (I)							
1933	2.5	-7.7	is less than depreciation							
1934	5.1	-3.8								
1935	8.9	0.8								
1936	10.3	3.2								
1937	13.1	5.9								
1938	7.7	-0.1								
1939	10.3	3.1								

Government Spending

Ta	Table 11. Budget Surplus or Deficit (billions of \$)							
	Federal	State & Local	TOTAL					
1929	1.2	-0.2	1.0					
1930	0.3	-0.6	-0.3					
1931	-2.1	-0.8	-2.9					
1932	-1.5	-0.3	-1.8					
1933	-1.3	-0.1	-1.4					
1934	-2.9	0.5	-2.4					

Source: Historical Statistics, Series F558-F560.

- It's the <u>change in deficit</u> (not existence of deficit) that matters
- Expansionary fiscal policy in 1930 & 1931

 deficit growing
- Contractionary fiscal policy 1932 & 1933

 deficit shrinking

Net Exp	orts			
Net Exports decline in 1930s	Table 12. Tariff Rates			
 maybe due to higher tariffs 		Average Rate on all goods	Average Rate on dutiable goods only	
D. J	1920	6	16	
But unimportant	1921	11	29	
 small share of GDP drop 	1922	15	38	
	1928	13	39	
	1929	13	40	
	1930	15	45	
	1931	18	53	
	1932	20	59	
	1933	20	54	
	Source: Historical Statistics, Series U211 and U212. Tari rates are lowered after World War II.			

Three Research Questions

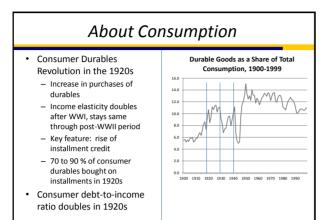
- 1. Why did the downturn occur?
- 2. Why was the depression so severe?
- 3. Why was the depression so long?
- Important: Keynesian model not published until 1936

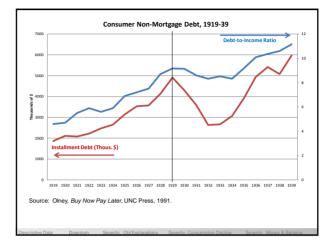
Explaining the Downturn

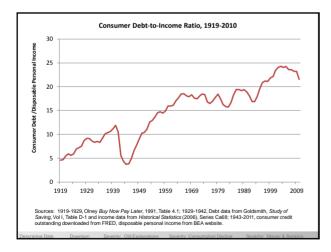
- Not a puzzle
- Due to Drop in Investment
 - Fed increased interest rates beginning January 1928
 - Fixed investment lower due to higher interest rates and to accelerator effect
 - ψ rate of growth of sales leads to ψ Investment
 - Residential investment lower due to higher interest rates and to 1920s overbuilding

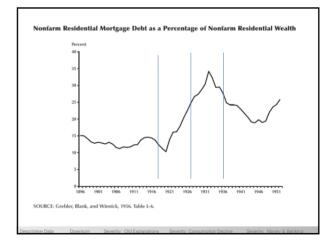
Explaining the Severity

- · Lots of Old Ideas
 - Classical labor market analysis
 - Labor Supply > Labor Demand . . . So drop wages
 - Business cycle theories
 - Natural boom & bust cycle . . . So wait it out
 - Insufficient aggregate demand
 - Investment fell, triggering consumption multiplier; fiscal policy not tried
 - Money hypothesis
 - Fed could have prevented drop in Money Supply
- But we really need to focus on consumption (see Table 8) and, to a lesser extent, investment spending









Consumption Decline

- Avoid "distress sale" of durable goods
 Frederic Mishkin (1980s)
- Loss of wealth if quickly sell durables
- Real debt up or wealth down?
 - Avoid buying durables
 - In order to avoid distress sale
- Implication?
 - Consumer durables bought for asset value

Consumption decline, cont'd

- Postpone irreversible durable & semi-durable good
 purchases
 - Christina Romer
- Wealth tied up ("distress sale" impossible)
- Increased uncertainty?
 - Postpone postpone-able purchases
 - Shift toward services, nondurables
- Implication?
 - Stock market crash affected almost everyone

Consumption decline, cont'd

- Avoid default on installment contracts

 Martha Olney
- Durables purchased on installments
 - New auto contracts at GMAC: \$1.1bn in 1929, \$0.7bn in 1931, \$0.4bn in 1932, \$1.4bn in 1937
 - Default? Result is loss of wealth
 - Repo rate: 5.4% in 1930, 10.4% in 1932, 15.1% in 1938
- Loss of income (actual or expected)?
 - Cut back wherever possible so able to make payments
- Implication?
 - Financial institutions matter!

	Temin's total consumption (1982 \$)	Lebergott's total consumption (1987 \$)	Nondura (198		
Dependent variable	(1)	(2)	(3)	(4)	
Constant	22.978	12.687	-31.021	43.589*	
	(21.250)	(15.276)	(19.549)	(10.274)	
Real disposable income	0.704*	0.763*	0.426*	0.181*	
	(0.067)	(0.048)	(0.062)	(0.030)	
Real wealth	0.037*	0.061*	0.029*	0.043*	
	(0.011)	(0.008)	(0.010)	(0.007)	
Lagged debt, 1919-1932				-0.905†	
				(0.774)	
Lagged debt, 1933				-1.659^{+}	
				(0.979)	
Lagged debt, 1934				-0.411^{+}	
				(0.874)	
Lagged debt, 1935				-0.253°	
				(0.801)	
Lagged debt, 1936				0.377†	
				(0.661)	
Lagged debt, 1937				0.626†	
				(0.533)	
Lagged debt, 1938-1941				1.367*	
				(0.449)	
Durbin-Watson	1.196	1.737	0.585	1.489	
Adjusted R ²	0.942	0.979	0.888	0.990	
Residuals (actual - fitted		1 000	0.404	0.107	
1921	22.347	-1.222	-0.434	-3.185	
1930	-8.607	-13.744	-17.994	-5.704	
1938	15.085	21.107	25.498	-1.712	
Sources. Ternin's consumption onsumption data are from Leber Appendix BJ. Nominal installmen Ohosy (1991, Table A. 8). Estimated using TSP 4.4. * different from that for lagged data	pott.[1996]. Real dis t debt is from Table I, Coefficient is statist	posable income and real deflated by index of price ically significant at 99	wealth are from a of major dural percent level. 1	Olney [1991, de goods from Coefficient: is	

Anticipo	ited	wa	ge d	cut ·	→ a	lecr	eas	e C
	Decreasi ial Incom llment F	Inco $ME \approx 1	OME IS A 00; SAVI	ON WHEN INTICIPATI	ed Percent	OF INC	OME;	se in
Number of remaining	Income drop anticipated in two months				Income drop anticipated in one month			
payments	2	6	10	14	2	6	10	14
Revised total income to								
end of contract	\$200.00	560.00	920.00	1280.00	190.00	550.00	910.00	1270.00
Revised monthly consumption	\$ 67.00	60.53	59.24	58.69	62.15	58.92	58.27	57.99
Percentage								
decrease in								

Investment Decline

- Credit Intermediation (1980s)
 Ben Bernanke (now chair of the Fed)
- Bank failures → loss of credit intermediation for small businesses
- Less borrowing means less investment