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## Who Affects the Money Supply?

- Fed can directly control MB<sub>n</sub> with Open Market Operations
- Fed can directly control r<sub>d</sub>
- Fed can indirectly control DL through who gets Fed loans setting a discount rate and determining
- Households determine C/D
- Banks determine ER/D

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money supply would be the	its of decreases on the	shown. The effec column.	he variables are 1 the "Response	Note: Only increases $(\uparrow)$ in t opposite of those indicated in
MB to support D and C				
$D; DL \uparrow$ so more				three players
reserves to support				banks and the other
$\{ER/D\} \downarrow$ so more	$\rightarrow$	$\rightarrow$	i	Borrowers from
support D			outflows	
reserves to			deposit	
$\{ER/D\}$ $\uparrow$ so fewer	←	$\rightarrow$	Expected	Depositors and banks
expansion				
Less multiple deposit	~	$\rightarrow$	[C'D]	Depositors
support $D$ and $C$				
$DL \downarrow$ so less $MB$ to	~	$\rightarrow$	4. a	
checkable deposits				
currency and				
More MB to support	$\rightarrow$	$\rightarrow$	$MB_n$	
deposit expansion				System
Less multiple	~	$\rightarrow$	$r_{p}$	Federal Reserve
Reason	Response	Unange in Variable	Variable	Player
		2		
nse	ply (M1) Respo	Money Sup	BLE 1	ТА
y Supply	ig Mone	minin	Detei	Factors
ב -		•		









- In the long-run, changes in M1 determined by changes in Monetary Base
  3/4 of money supply changes come from open market operations
  In the short-run, the changes in the
- In the short-run, the changes in the multiplier can change M1 considerably
  Fed must be aware of consumer behavior



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Currency Ratio, {*C/D*} 0.40

{*ER/D*}, {*C/D*}: 1929–33

Excess Reserves Ratio, {*ER/D*} ] 0.08

End of Final Bank

Crisi

0.15

0.05

{ERID}

Start of First Banking

0.03

1929

1930

1931

1932

1933

0.01

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0.35 0.30 0.25

{C/D}

0.07 0.06 0.05 0.04

Note: Only increases (1) in the variables are shown; the effects of decreases in the variables on the money in plier would be the opposite of those indicated in the "Response" column.	(MMF/D) 1 1 More multiple deposit expansio	$(T/D)$ $\uparrow$ $\uparrow$ More multiple deposit expansio	$\{C/D\}$ 1 $\downarrow$ Less overall deposit expansion	$(ER/D)$ $\uparrow$ $\downarrow$ Fewer reserves to support C and	$r_{_D}$ 1 $\downarrow$ Less multiple deposit expansion	$DL$ $\uparrow$ $\uparrow$ More <i>MB</i> to support <i>C</i> and <i>D</i>	$MB_n$ $\uparrow$ $\uparrow$ More <i>MB</i> to support <i>C</i> and <i>D</i>	Change in M2 Money Variable Supply Response Reason	TABLE A1         Response of the M2 Money Supply to Changes in MB, DL.           [ER/D], [C/D], [T/D], and [MME/D]	Factors Determining M2
he money multi-	expansion	expansion	cpansion	port Cand D	expansion	and D	and D		$MB_{\mu}, DL, r_{\mu},$	