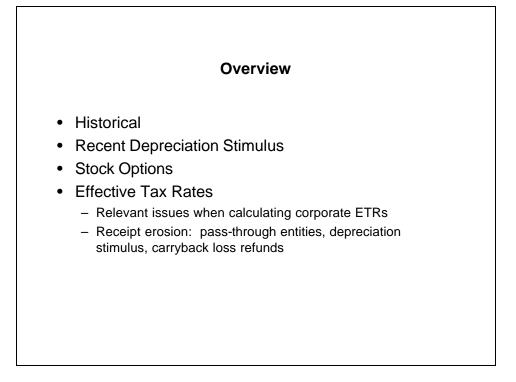
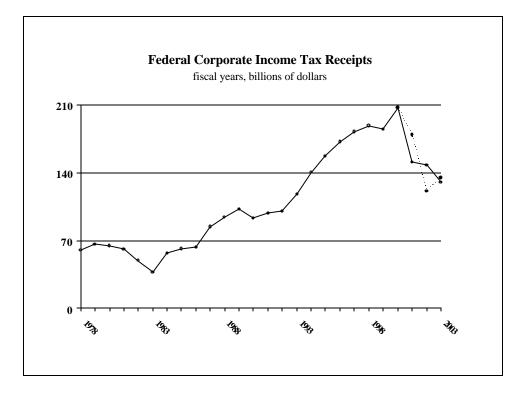
## Recent Issues in Corporate Income Taxation: Depreciation, Stock Options and Effective Tax Rates

Presentation to: Federation of Tax Administrators September 22, 2003

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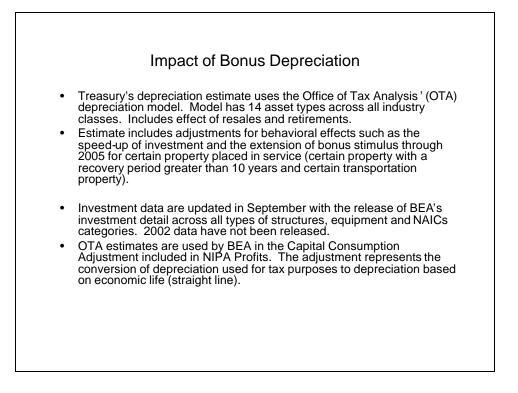
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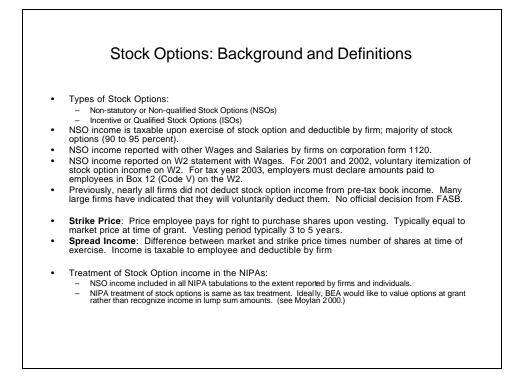


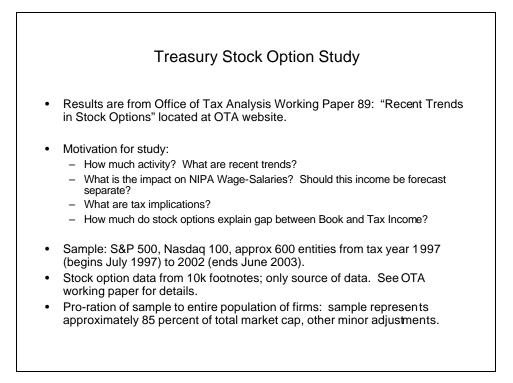
	Fe	deral Cor	porate	Income <sup>·</sup>	Tax Rec	eipts	
		fisc	al vears. b	illions of do	ollars		
						Perce	ant of
FY	Rate	Published	Adjusted	Growth		GDP	PBT
1978	48%	60.0	60.0			2.61%	24.50%
1979	46%	65.7	65.7	9.5%	İ	2.56%	24.32%
1980	46%	64.6	64.6	-1.7%		2.31%	25.70%
1981	46%	61.1	61.1		ERTA	1.95%	25.36%
1982	46%	49.2	49.2	-19.5%		1.51%	25.17%
1983	46%	37.0	37.0	-24.8%		1.05%	16.00%
1984	46%	56.9	56.9	53.7%		1.45%	21.39%
1985	46%	61.3	61.3	7.8%		1.46%	24.03%
1986	46%	63.1	63.1	3.0%	TRA	1.42%	25.94%
1987	40%	83.9	83.9	32.9%		1.77%	26.68%
1988	34%	94.2	94.2	12.2%		1.84%	24.66%
1989	34%	102.6		8.9%		1.87%	27.24%
1990	34%	93.5	93.5	-8.9%		1.61%	23.29%
1991	34%	98.1	98.1	4.9%		1.64%	23.57%
1992	34%	100.3	100.3	2.2%		1.59%	22.20%
1993	35%	117.5		17.2%		1.77%	23.02%
1994	35%	140.4	140.4	19.5%		1.99%	24.48%
1995	35%	157.1	157.1	11.9%		2.12%	23.50%
1996	35%	171.8	171.8	9.4%		2.20%	23.66%
1997	35%	182.3	182.3	6.1%		2.19%	23.01%
1998	35%	188.7	188.7	3.5%		2.15%	26.17%
1999	35%	184.7	184.7	-2.1%		1.99%	24.23%
2000	35%	207.3	207.3	12.2%		2.11%	27.39%
2001	35%	151.1	179.1	-13.6%		1.78%	26.72%
2002	35%	148.0	121.3	-32.3%	JCWAA	1.16%	18.40%
2003	35%	129.8	134.6	11.0%	JGTRRA	1.24%	17.46%

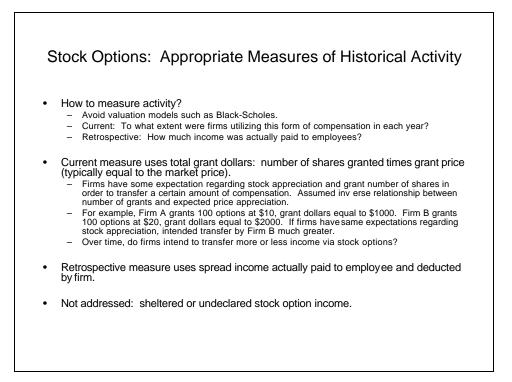
	Recent Dep	recia	tion	Stin	านเน	S		
•	The Job Creation and Worker Assistant bonus depreciation for certain investme and 9-11-04. Eligible investment includ as well as certain computer software, w property.	ent acqui es prope	red and erty with	l place	d in se /ery pe	ervice l eriod o	betwee f 20 ye	n 9-11-01 ars or les
•	The Jobs and Growth Tax Relief Recor bonus depreciation to 50 percent in the	first yea	r. The	50 pei	rcent p	rovisio	,	
	property acquired and placed in service	e after 5-	5-03 ar	id beto	ore 1-1	-05.		
•	The adjusted basis of an asset is reduce before computing the amount otherwise year. For example, deduct 50 percent IRS.	ed by the allowab	e amou le as a	nt of th depre	ne first ciatior	-year b deduc	ction for	the give
•	The adjusted basis of an asset is reduc before computing the amount otherwise year. For example, deduct 50 percent	ed by the allowab of cost, t	e amou le as a hen ap ching to	nt of th depre ply noi straig	ne first ciatior rmal M ht line	-year b deduc IACRS	ction for table   rear cor	r the giver provided



		S Corpo					2007	2000	2000
Dollar Change in	2001	2002	<u>2003</u>	<u>2004</u>	2005	2006	2007	2008	<u>2009</u>
Depreciation Deduction	on: 51.8	135.2	164.4	253.0	-122.2	-150.8	-98.7	-64.8	-41.8
Percent Change in									
Depreciation Deduction	on: 7.8%	20.3%	24.5%	36.5%	-16.7%	-19.2%	-11.7%	-7.2%	-4.4%
	_								
Other Relevant Information	For tax ve	ars 1997-20	00 70 to 8	0 nercent (	of deprecia	tion deduct	tions accru	e to firms	
		/e income (				action action			
	S Corp sha	are of depre	eciation dec	ductions an	oproximate	lv 11 perce	nt.		
	Tax year 2	005 include	es the impa	ct of stimul	us extensio	on to 2006 f	or certain p	roperty	
	placed in s	service.							
	_								
Note Estimates base	l on 2001 Inve	otmont dat	ail and inva	atmont oor	umptionou	upped for Mir	A Cossion [	Paviaw EV	2004
NOLE ESUITALES DASE	10112001 IIIve	Simeni dela	an anu inve	SUITETIL doo		ISEU IOI IVIIC	-36220011		2004.







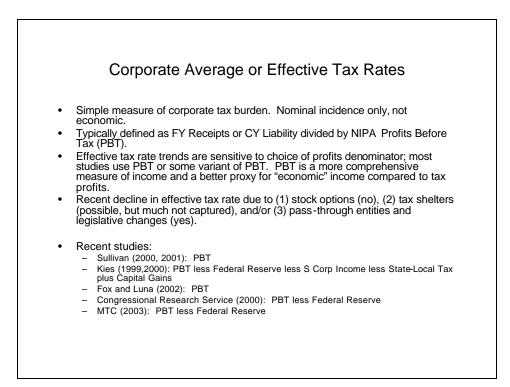
## Stock Options: General Findings

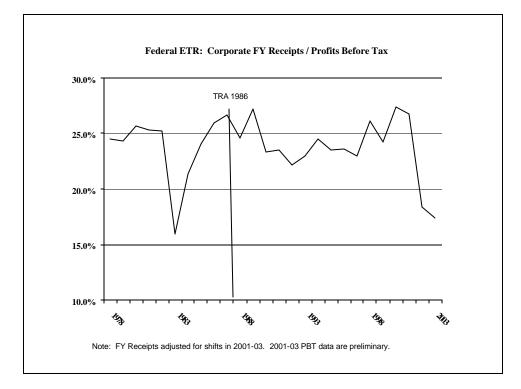
- 2000 is peak of stock option activity, however defined. Significant recent declines.
- Nearly all firms in sample granted stock options in every year.
- Activity is very concentrated. Between 1997-2002, top ten firms in a given year account for approximately 25 percent of total grant dollars and 35 percent of total spread income paid to employees.
- Stock options disproportionately utilized by New Economy firms: in tax year 2000 these firms pay 53 percent (\$59 billion) of total spread income but account for only 17 percent of pre-tax book income, 18 percent of net tax income.
- For tax years 1997 to 2000, stock option deductions accounted for approximately one-third of the difference between reported book and tax income.
- The impact on federal income tax receipts likely nets close to z ero.
  - Nearly all income accrues to taxpayers at highest individual marginal tax rate.
  - Many firms cannot immediately utilize the stock option deduction in current tax year.
  - Was all income deducted by firms reported by individuals?
  - Not addressed: How much stock option income was incremental? How much would have been paid in higher wage-salaries? What is true counterfactual? Some studies suggest nearly all stock option income was incremental.

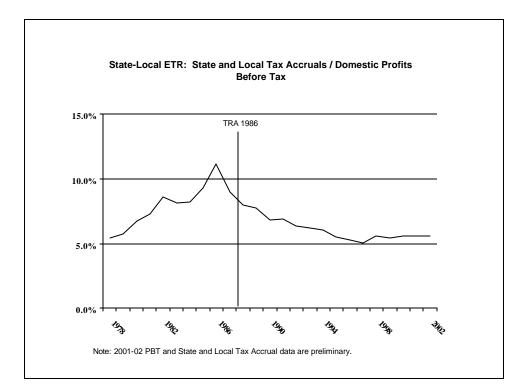
	Stock Opti	ons: N	umber o	of Share	S	
sample	firms, tax ye	ars, billior	ns of shar	es (split-a	djusted)	
Levels	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>
Grants	5.92	6.24	6.69	8.11	7.93	6.33
Exercises	3.38	3.50	3.64	3.67	2.66	2.09
Outstanding	18.54	20.04	21.94	25.40	27.56	28.11
Vested	8.08	8.81	9.62	11.39	13.43	15.14
Change - Amount						
Grants		0.32	0.45	1.42	-0.18	-1.60
Exercises		0.12	0.14	0.03	-1.01	-0.57
Outstanding		1.50	1.90	3.46	2.16	0.55
Vested		0.73	0.81	1.77	2.04	1.71
Change - Percent						
Grants		5.4%	7.2%	21.2%	-2.2%	-20.2%
Exercises		3.6%	4.0%	0.8%	-27.5%	-21.4%
Outstanding		8.1%	9.5%	15.8%	8.5%	2.0%
Vested		9.0%	9.2%	18.4%	17.9%	12.7%

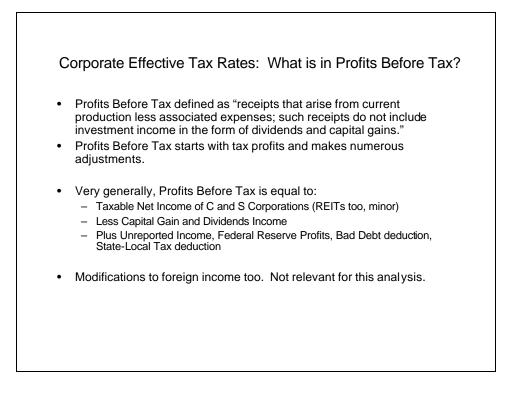
		Stock Op	tions: H	listorical	Activity I	Measures		
			tax years	s, billions (	of dollars			
		1997	1998	1999	2000	2001	2002	2003
Gra	nt Dollars							
San	nple Firms	116.6	150.2	239.6	318.1	244.7	190.4	
	ar Change		33.6	89.4	78.5	-73.4	-54.3	
	cent Change		28.8%	59.5%	32.8%	-23.1%	-22.2%	
<u>Spr</u>	ead Income							
San	nple Firms	43.3	60.5	91.2	110.6	68.4	37.1	37.4
All (	Corporations	49.4	69.1	104.1	126.2	78.1	42.4	42.7
Doll	ar Change		19.7	35.0	22.1	-48.1	-35.7	0.3
Per	cent Change		39.9%	50.7%	21.2%	-38.1%	-45.8%	0.8%
Note	2003 is a projection							
	ratio of exercises	in year t to outsta	anding options	vested from y	ear t-1 in 2002	holds for 200	3 for all firms.	

	Stock Optic	n Income	Relativ	e to NIF	PA Wag	es-Salar	ies	
		bi	llions of	dollars				
		1997	1998	1999	2000	2001	2002	2003
Sprea	d Income, All Firms	49	69	104	126	78	42	43
Grow	h		39.9%	50.7%	21.2%	-38.1%	-45.7%	0.7%
NIPA	Wages-Salaries	3886	4192	4476	4836	4951	4996	5163
Grow	h		7.9%	6.8%	8.0%	2.4%	0.9%	3.3%
Perce	nt Spread Income	1.3%	1.6%	2.3%	2.6%	1.6%	0.8%	0.8%
Grow	h NIPA Wages-Sala	ries						
	xluding Spread Inco		7.5%	6.0%	7.7%	3.5%	1.7%	3.4%
	2003 is a projection.							









## Corporate Effective Tax Rates: Relevant Issues Exclusion of Cyclical Tax Adjustments NIPA adjustments to tax profits distort effective tax rate trends because actual tax receipts no longer aligned with profit base, e.g., Capital Gains, deduction for Bad Debt. These adjustments are made purely for definitional reasons; they are not income from "current production." Relevant tax items that are excluded from Profits Before Tax tend to be cyclical. For example, large decline in Capital Gains for 2001 results in significant decline in receipts; no offsetting reduction to PBT denominator. Result: Disproportionate plunge in effective tax rates during recessions. Disproportionate increase during booms.

Corporate Effective Tax Rates: Relevant Issues Inclusion of Unreported Income
<ul> <li>NIPA Profits Before Tax includes a very large adjustment for unreported income called "Adjustment for Misreporting." In theory, it is proper to include this type of adjustment in an "appropriate" tax base used to measure effective tax rates.</li> <li>The adjustment adds an estimate of the additional profits that w ould be revealed if all returns were audited. Published tax data and tax profits used in the NIPAs are unaudited.</li> <li>Adjustment is based on IRS audit data.</li> <li>Adjustment likely has limited value in assessing very recent shelter activity: <ul> <li>It is based on historical audit data which generally lag by 2-3 years due to lag between filing of return and actual audit.</li> <li>It is based on the auditor's recommended additions to liability. Uncertain whether taxpayer will challenge and succeed. IRS may also adjust amounts retroactively.</li> <li>It is dependent on IRS audit resources and level of sophistication.</li> </ul> </li> </ul>
<ul> <li>The adjustment may or may not accurately reflect the current level of unreported income or illegal tax sheltering.</li> <li>Since amounts are apportioned to both positive and negative income firms, this adjustment continues to grow during recessions, but receipts do not. Result: declining effective tax rate during recessions.</li> </ul>

Profits Before				lisrepoi	ting of I	ncome	
	bi	llions of	dollars				
	1994	1995	1996	1997	1998	1999	2000
Profits Before Tax	573		726		721	762	782
Growth		16.6%	8.6%	9.1%	-9.0%	5.7%	2.7%
Misreporting of Income	78				119	136	159
Growth		9.8%	9.7%	14.5%	10.9%	13.9%	17.0%
Percent of PBT	12 69/	12.8%	12.00/	12 60/	16.6%	17.9%	20.49
	13.0%	12.0%	13.0%	13.0%	10.0%	17.9%	20.4%

	Factors Co	ntributi	ng to C	orporate l	ncome Tax	Erosion				
		ta	ix years, t	illions of dolla	ars					
		Pass Throughs ; Positive Inc								
Veee	FY					Other Factors				
Year	Receipts		S Corps	REITS	CB Refund	Depreciation				
1986	63.1	330.2		0.7	-8.2		0.0			
1987	83.9 94.2	373.2		0.9	-11.3		2.2			
1988 1989	94.2	448.4		1.1	-7.4		2.9			
1990 1991	93.5 98.1	417.2		1.3	-8.2		7.4			
1991	98.1	400.9		1.1	-8.2					
1992	117.5	429.4		1.3	-11.1					
1993	140.4	554.8		2.8	-6.9		1.0			
1994	157.1	642.2		3.9	-6.9		-0.5			
1996	171.8	714.1		8.1	-7.2					
1997	182.3	765.7		20.5	-8.6					
1998	188.7	736.5		23.8	-9.0					
1999	184.7	783.8		30.9	-13.0		-0.4			
2000	207.3	859.3		36.9	-12.2	0.0	-1.3			
2001	179.1	712.9		34.7	-15.1					
2002	121.3				-38.0	-27.3				
2003	134.6				-46.0					
Average	Annual Growth Rates									
1986-01		5.3%	15.4%	30.0%			Ì			
1991-01		5.9%	12.0%	40.9%						
1996-01		0.0%	9.1%	33.7%						
	C Corp data includes					ax credit.				
	2001 tax data are pre	eliminary.	Depreciatio	n figures for C C	orps only.					
	Carryback refund dat	a are actua	Is and tabul	ated on a fiscal	year basis.					
	Carryback refunds de	fined as all	refunds not	attributable to r	ecent overpayme	nts.				

