Treatment Trends in Pa

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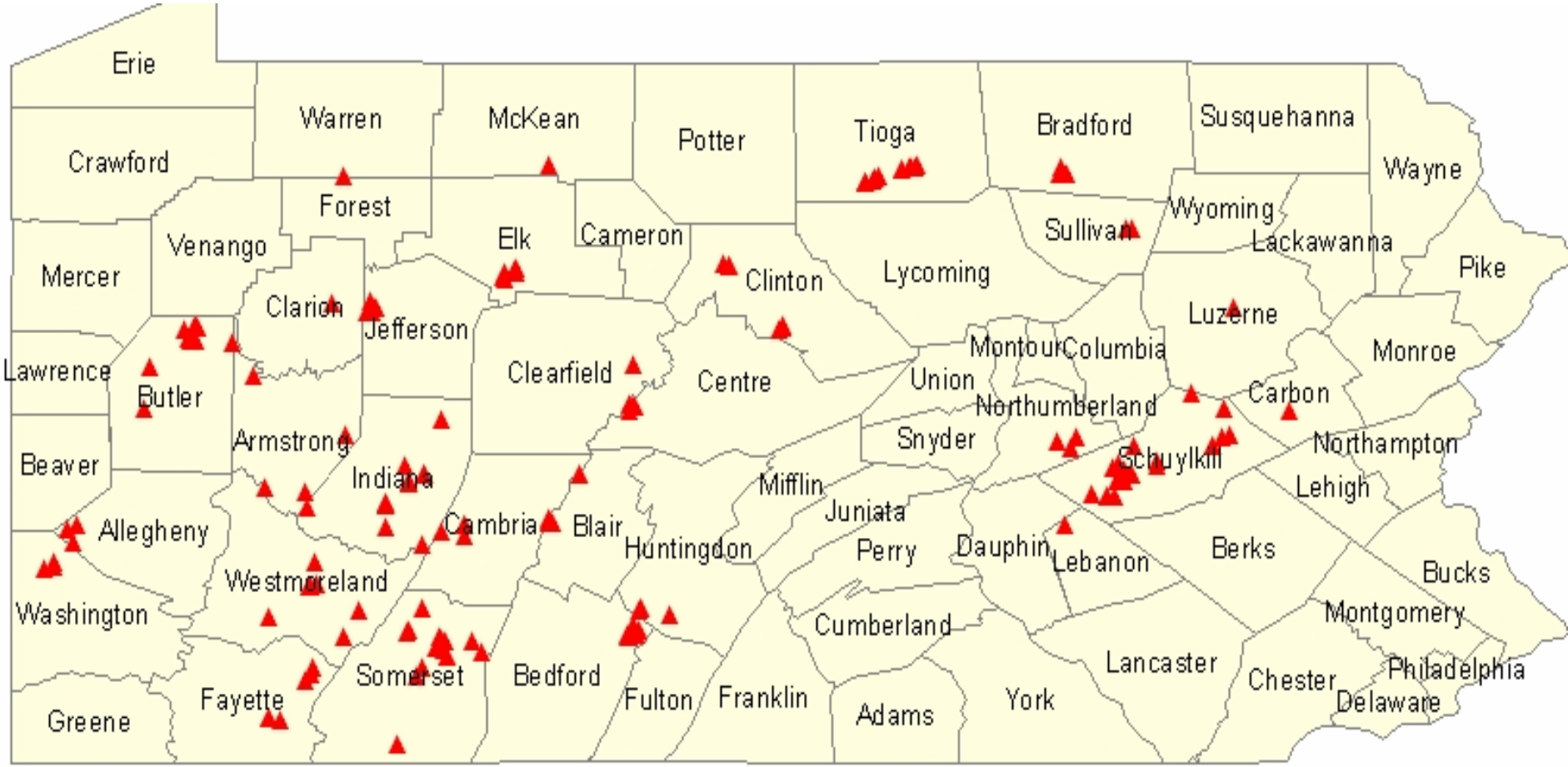
U.S. Office of Surface Mining

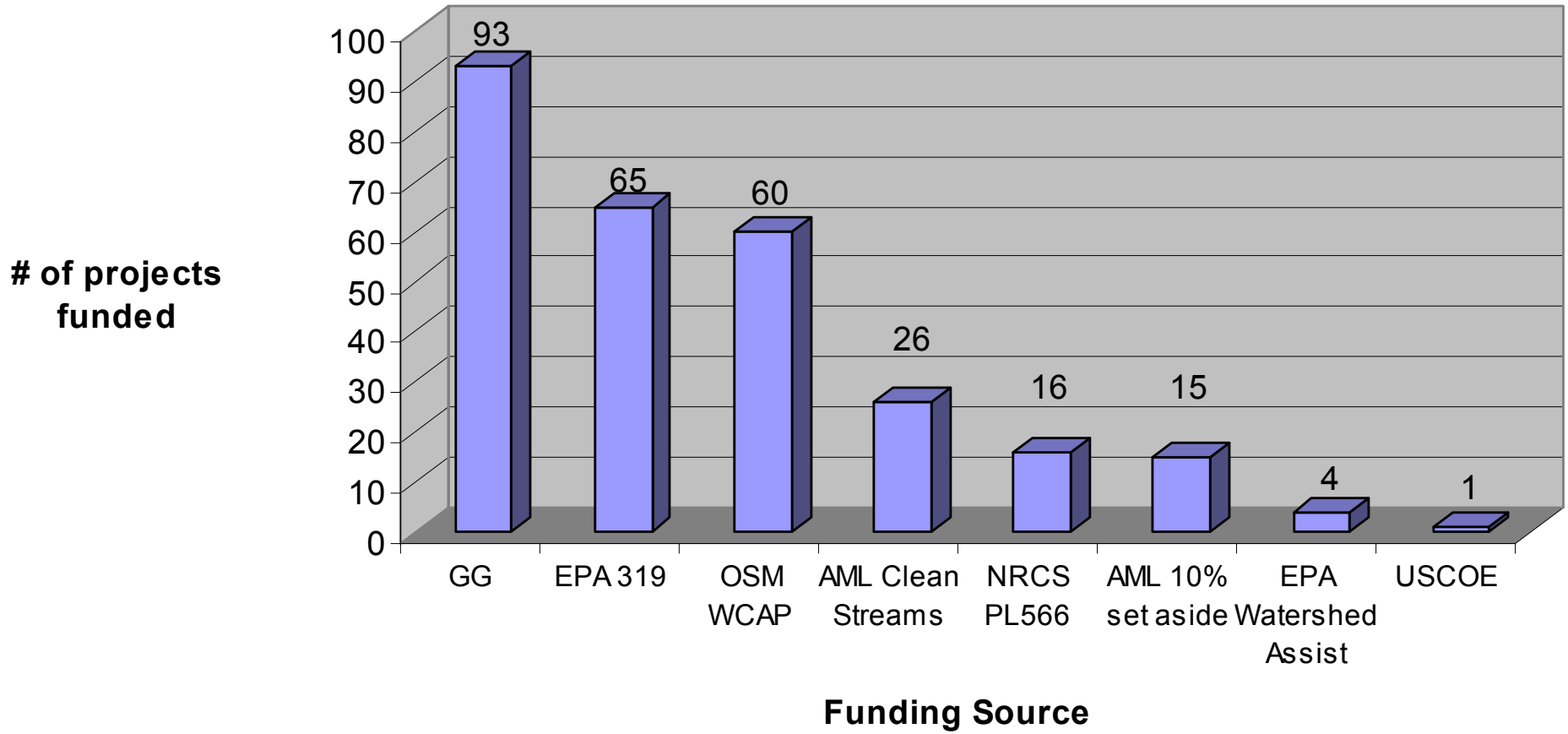
Passive Treatment in Pa



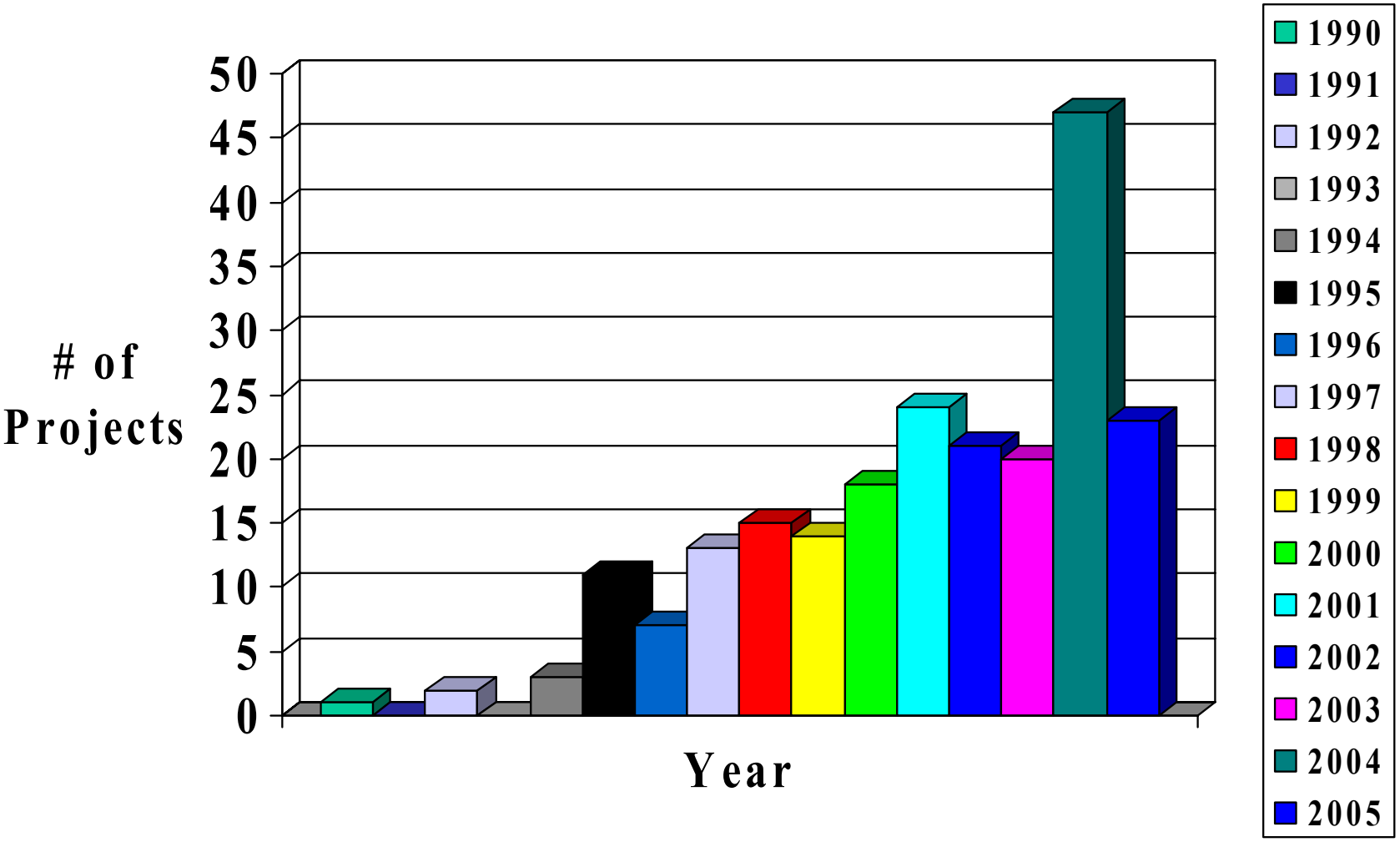
227 projects @ a cost of $63,619,351

Avg. project cost = $285,289

Who's funding these projects???



Trends in Passive Treatment Construction



Counties Sorted by # of Projects

County	# of projects	Total money spent
SCHUYLKILL	26	$5,483,104
BUTLER	23	$5,891,355
INDIANA	20	$5,677,207
BEDFORD	17	$948,979
TIOGA	17	$5,310,566
SOMERSET	16	$5,876,470
ELK	14	$6,772,196
JEFFERSON	14	$1,855,680
WESTMORELAND	9	$2,140,313
FAYETTE	8	$3,068,565
CAMBRIA	7	$4,329,777
CLINTON	7	$1,435,496
HUNTINGDON	7	$1,211,006
BLAIR	6	$1,847,429
ALLEGHENY	5	$1,279,761
CENTRE	5	$929,072
ARMSTRONG	4	$1,373,785
CLARION	4	$1,460,834
NORTHUMBERLAND	4	$675,755
WASHINGTON	3	$1,108,974
MCKEAN	2	$299,000
SULLIVAN	2	$566,634
BRADFORD	1	$1,265,760
CARBON	1	$524,200
CLEARFIELD	1	$225,337
DAUPHIN	1	$291,854
LEBANON	1	$0
LUZERNE	1	$68,600
MERCER	1	558,000

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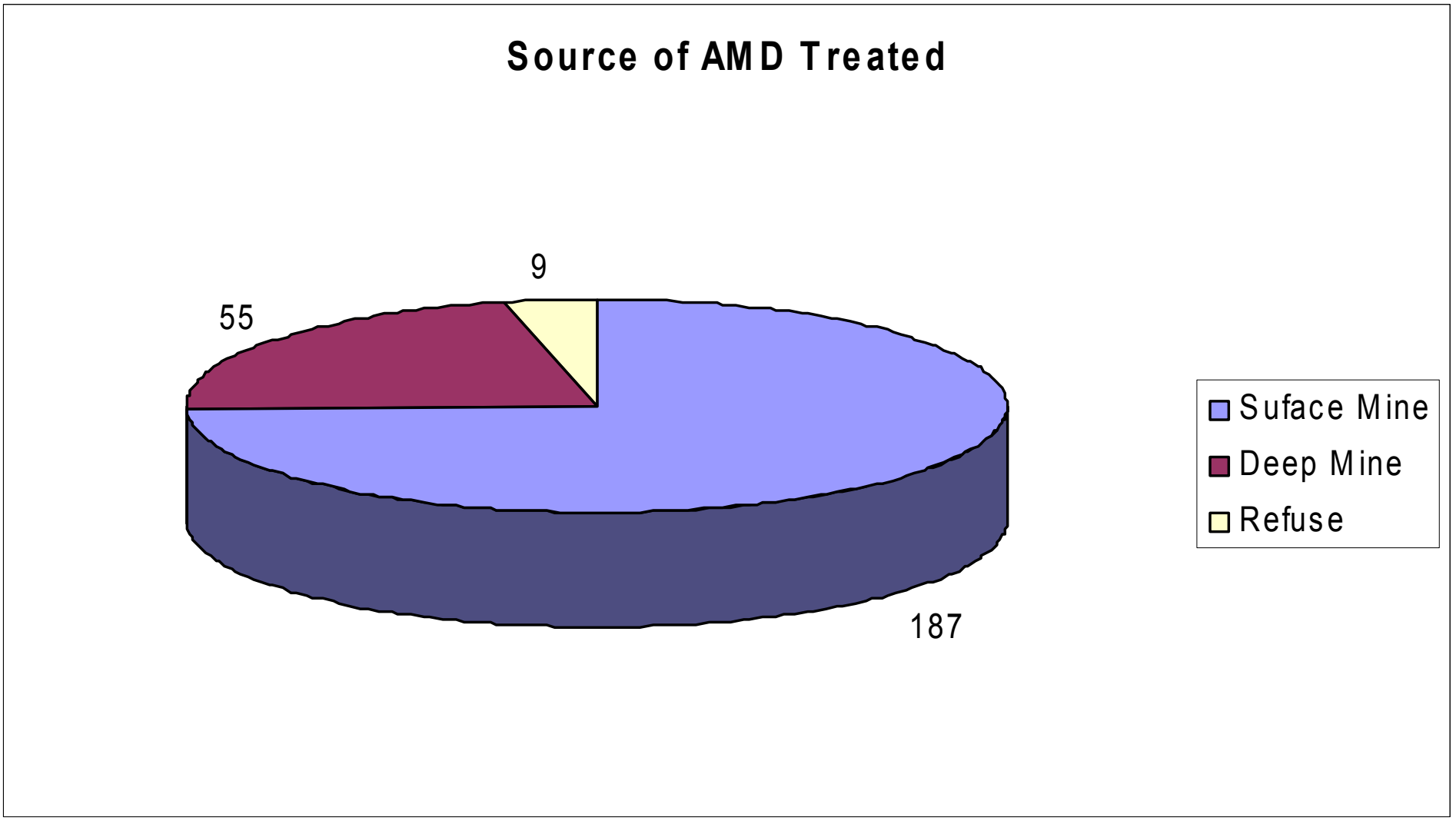
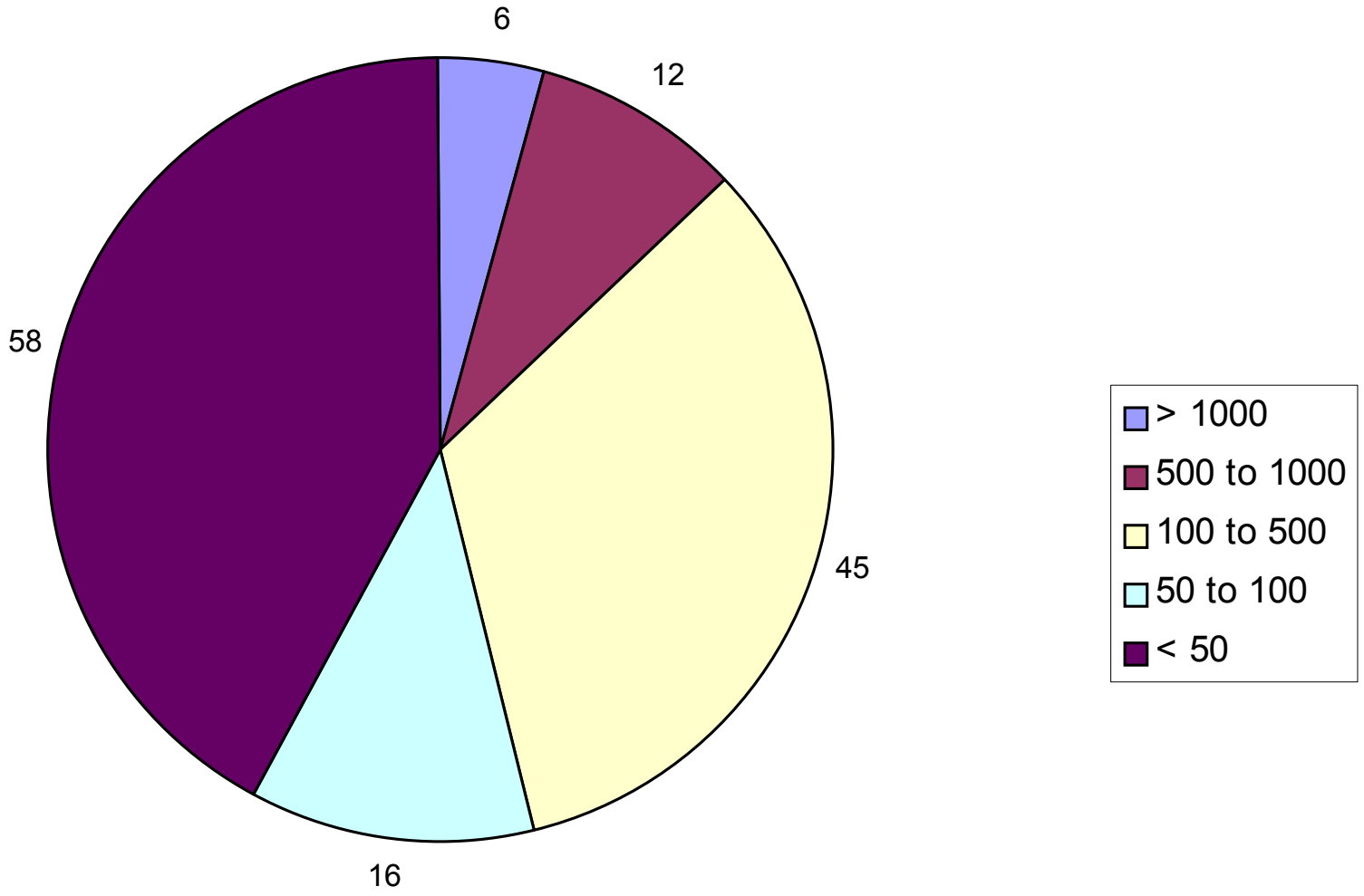
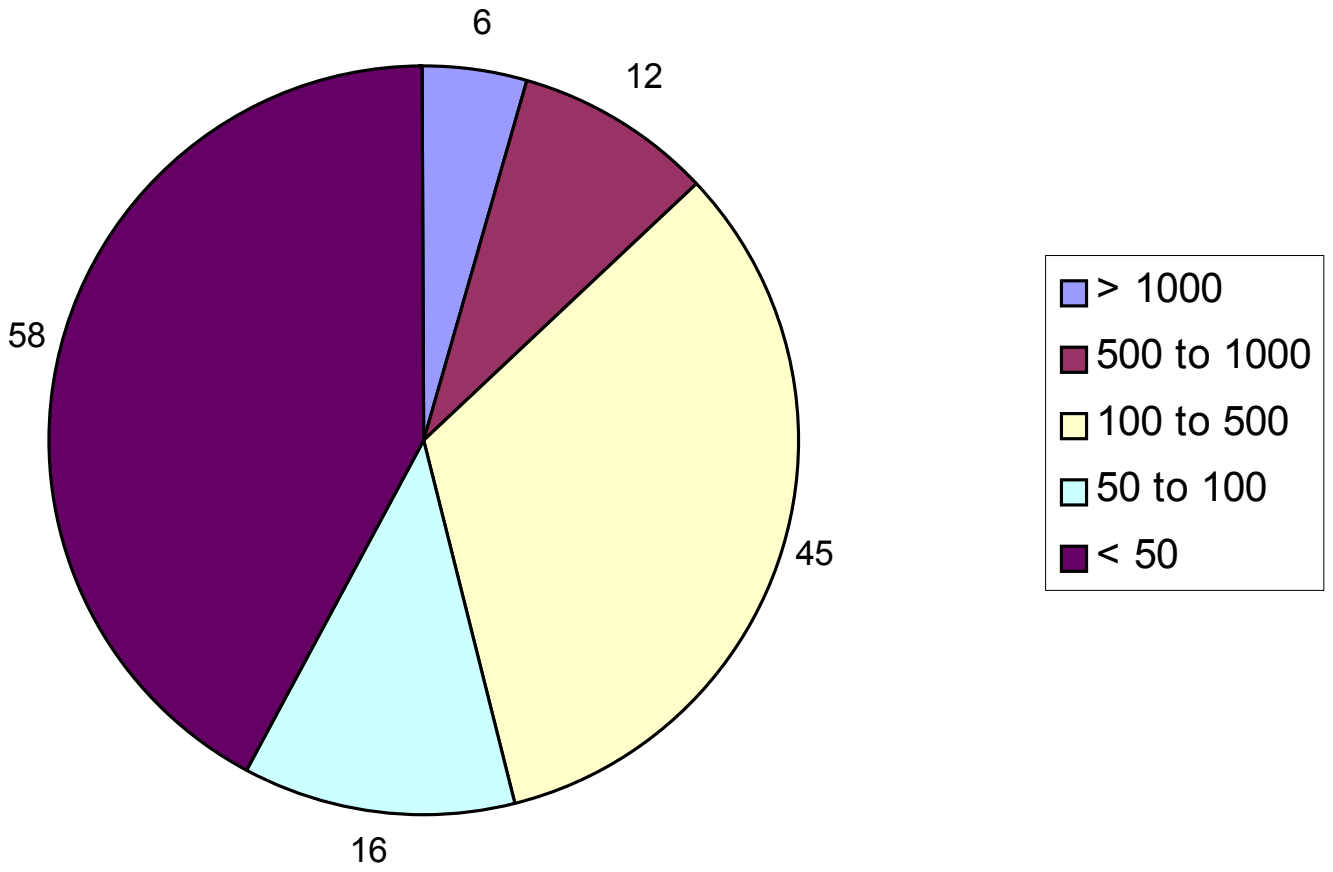

Source of AMD Treated
9
55
187
Suface Mine
Deep Mine
Refuse

Projects Characterized by Flow Rate (gpm)



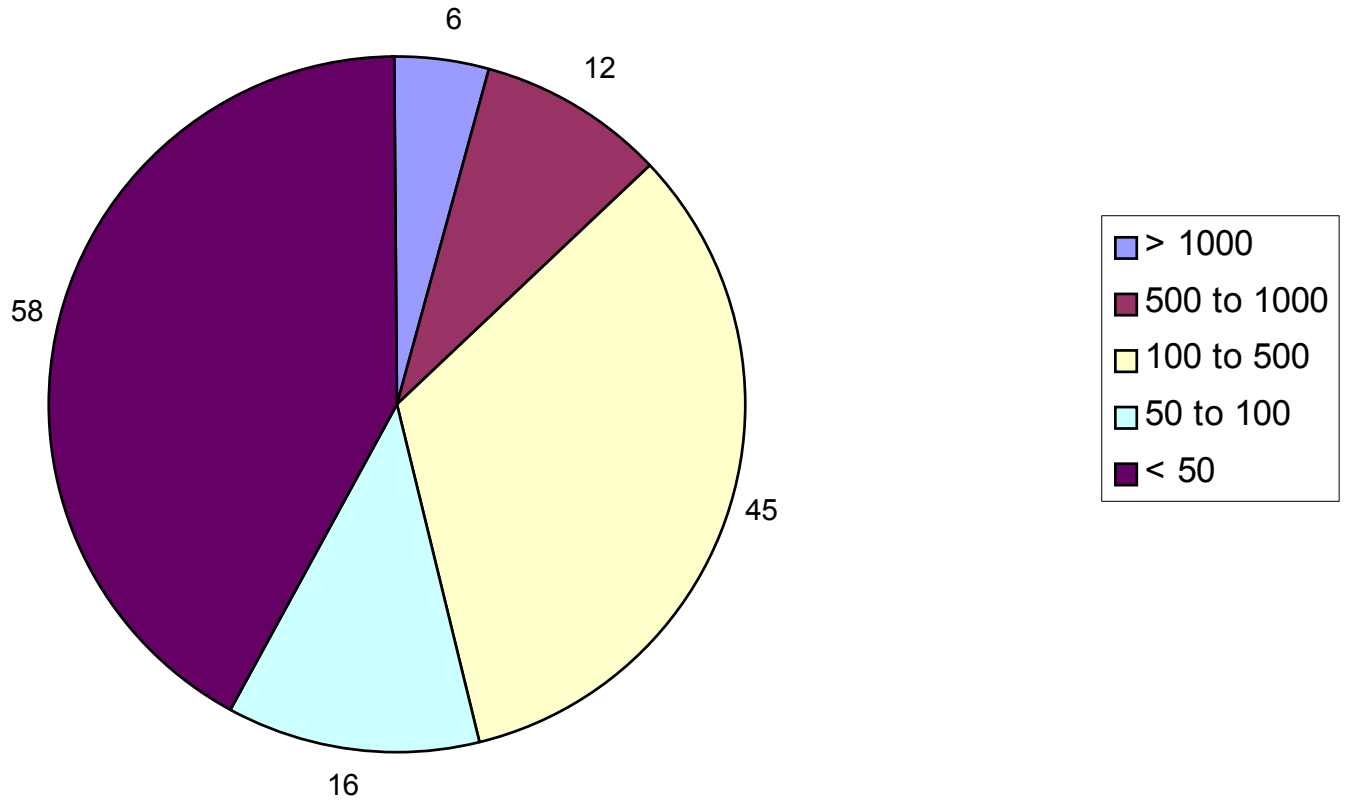
Max Flow = 8,478 gpm (Audenreid)

Projects Characterized by Acidity
(mg/L as CaCO3)

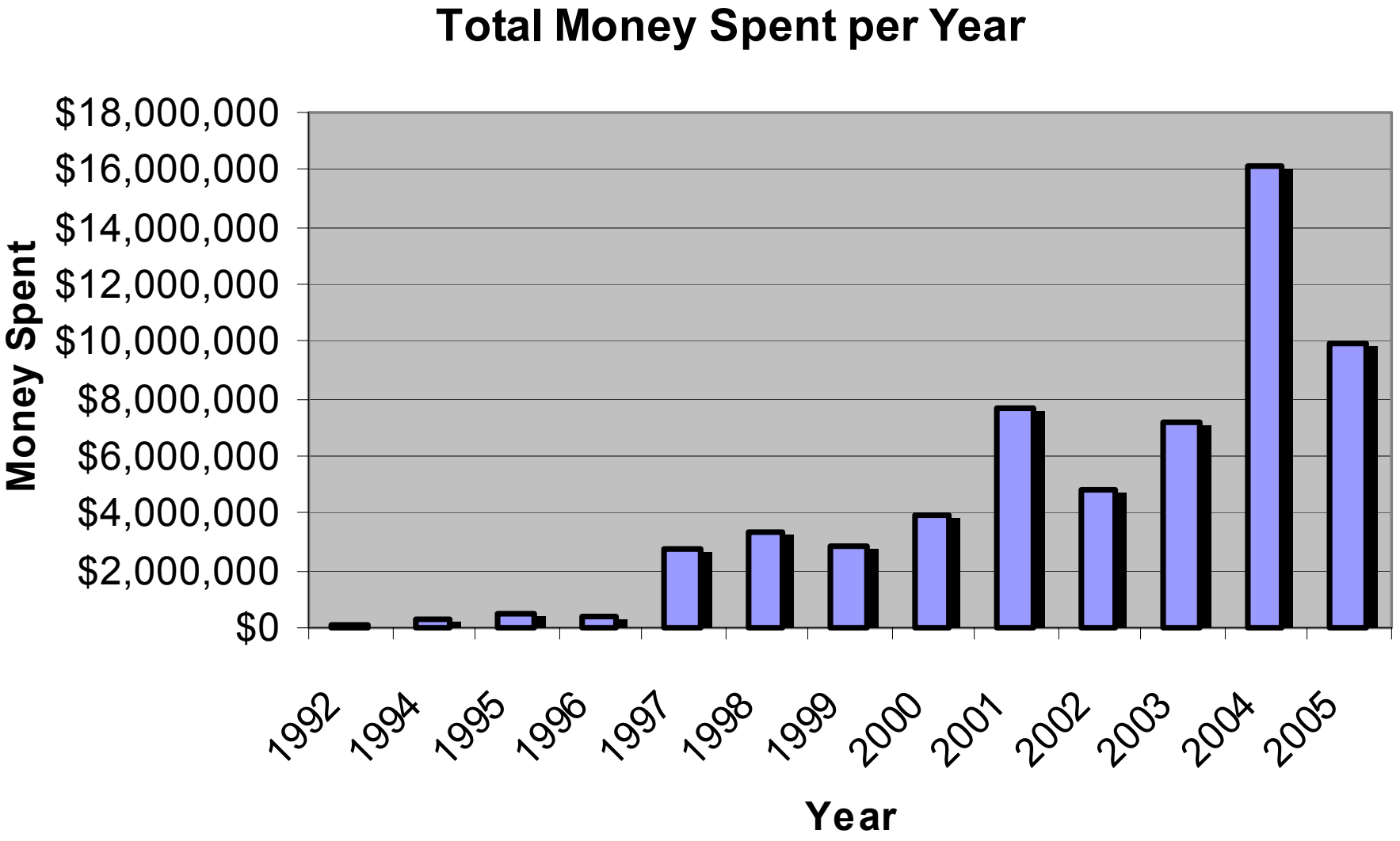


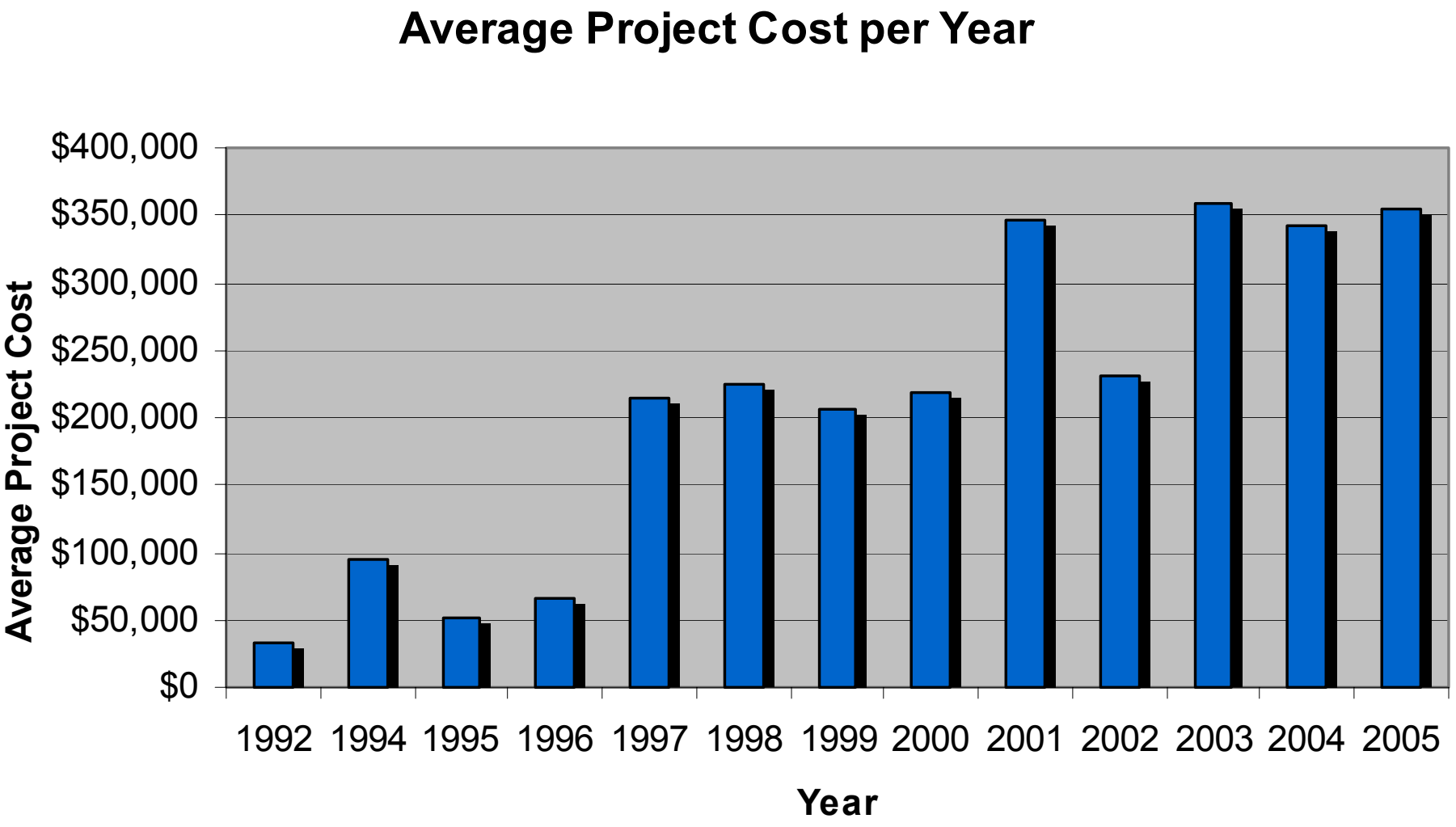
Max Acidity = 1,350 mg/L CaCO3 (Metro)

Projects Characterized by Acidity Load (lbs/day as CaCO3)

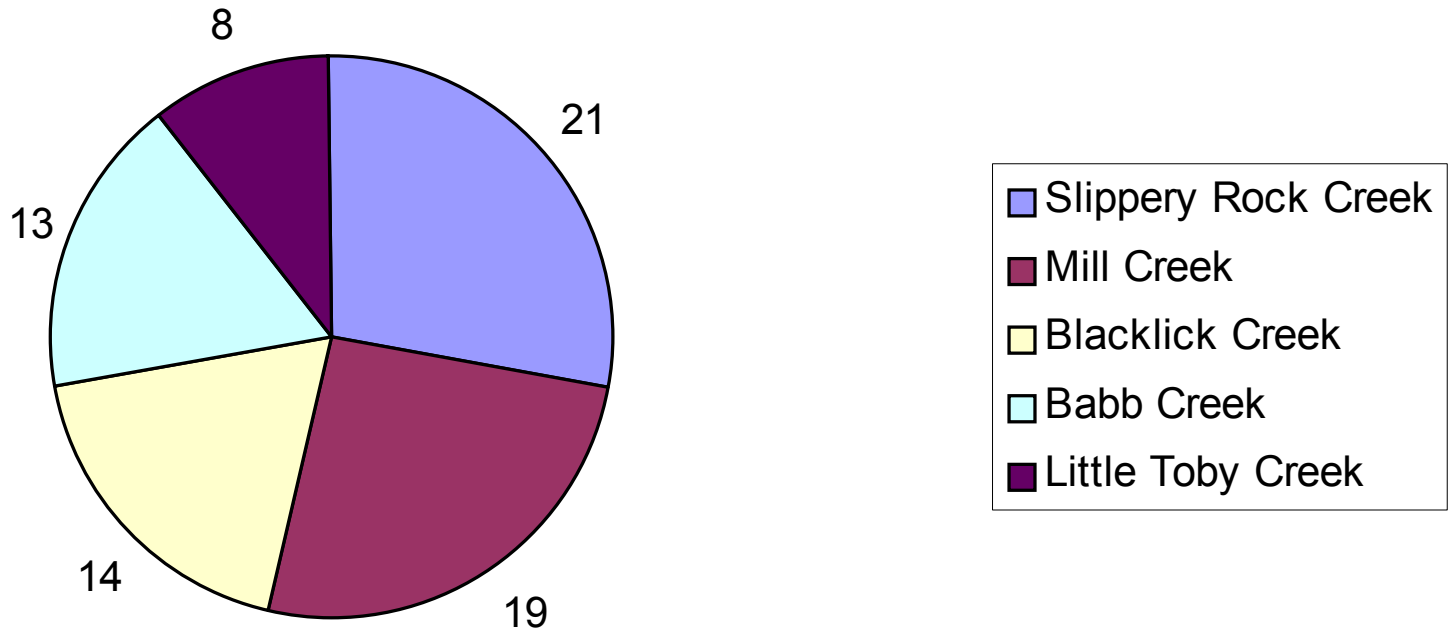


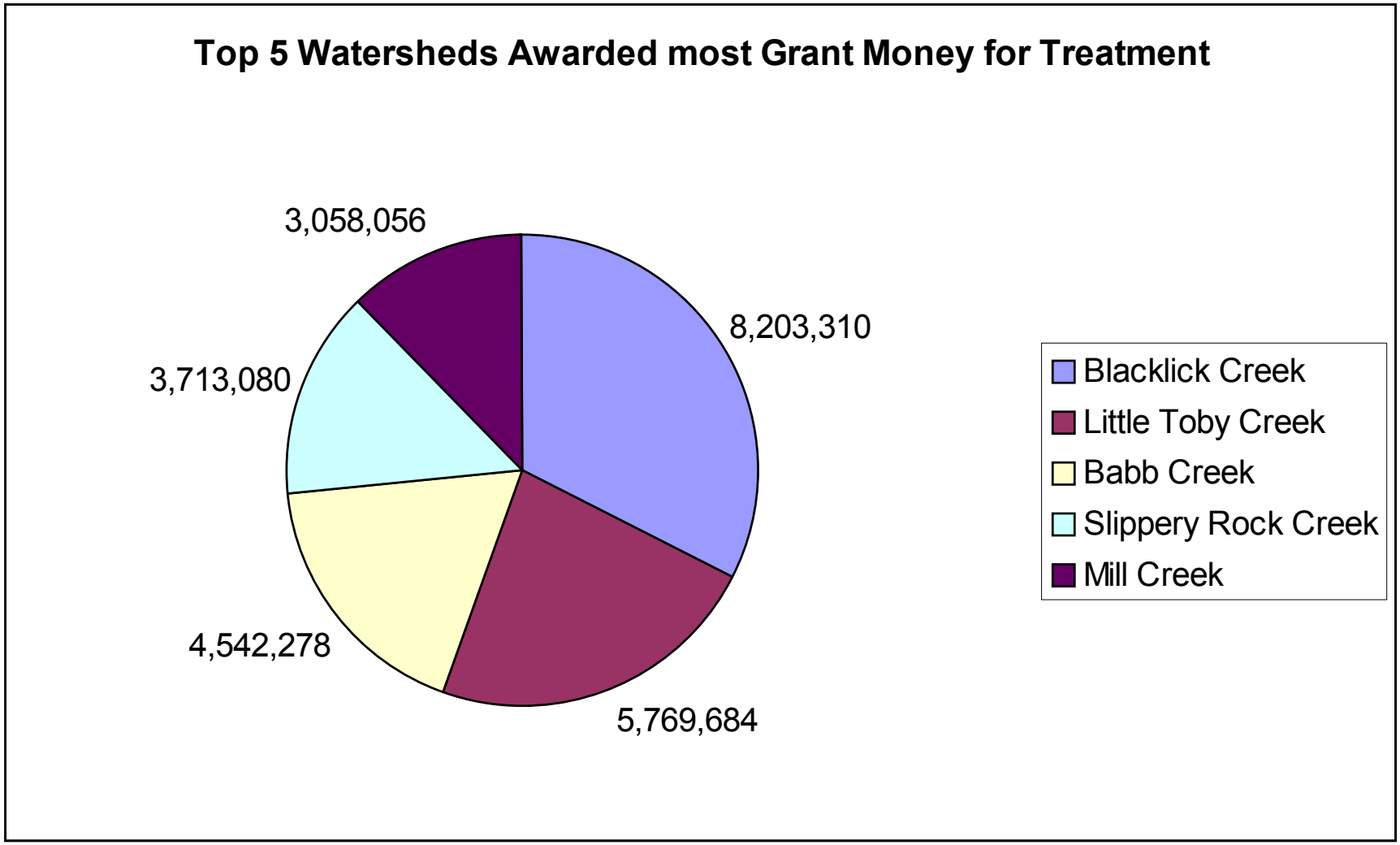
Max Acidity load = 6,918 lbs/day as CaCO3 (Audenreid)


Total Money Spent per Year
Money Spent
$18,000,000
$16,000,000
$14,000,000
$12,000,000
$10,000,000
$8,000,000
$6,000,000
$4,000,000
$2,000,000
$0
1992
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
Year

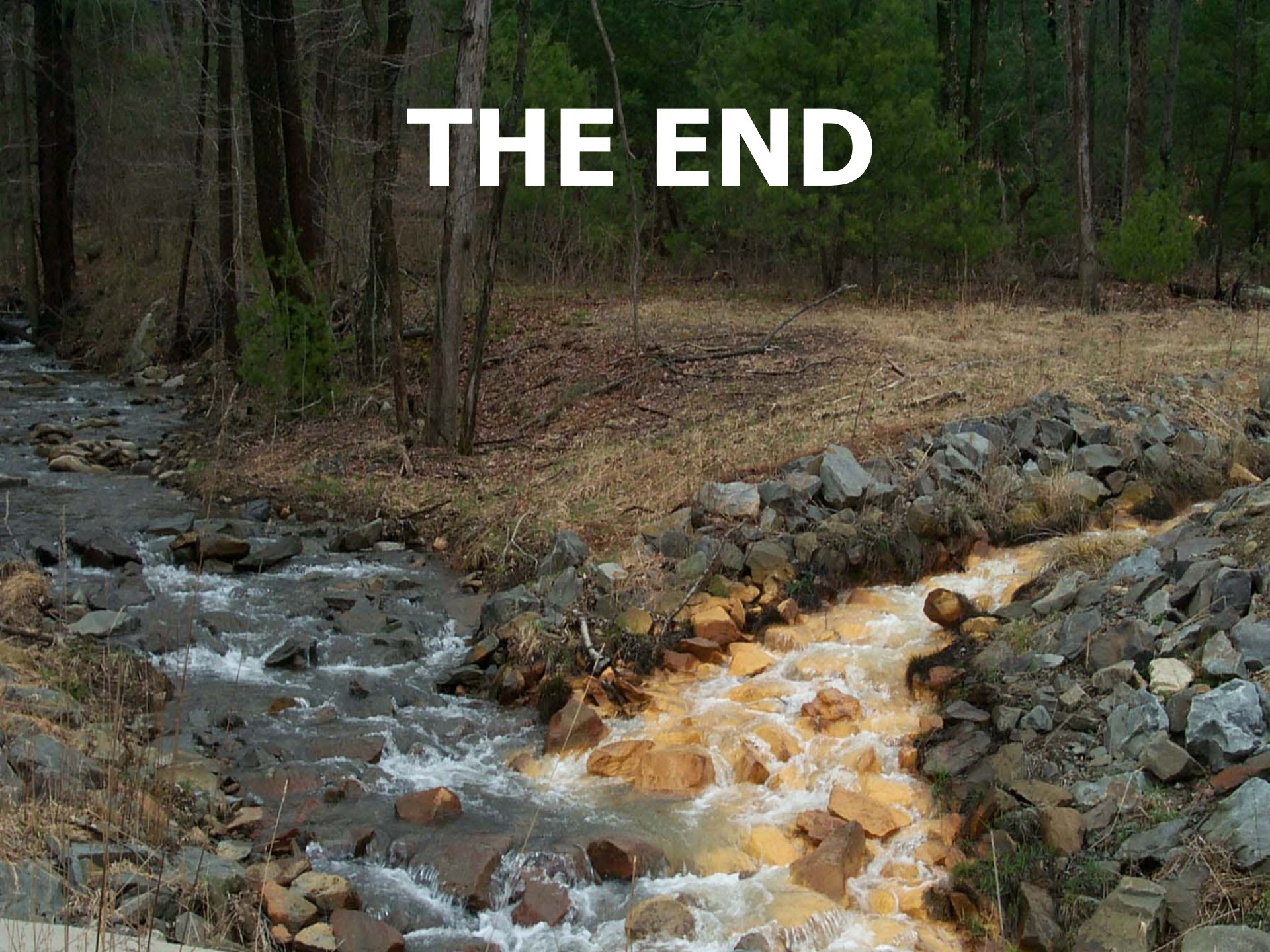

Average Project Cost per Year
$400,000
$350,000
$300,000
$250,000
$200,000
$150,000
$100,000
$50,000
$0
Average Project Cost
1992
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
Year

Top 5 Watersheds with most projects




Top 5 Watersheds Awarded most Grant Money for Treatment
3,058,056
8,203,310
3,713,080
4,542,278
5,769,684
Blacklick Creek
Little Toby Creek
Babb Creek
Slippery Rock Creek
Mill Creek

WELLS CREEK
WATERSHED
ADAMS 84 PROJECTS
THANKS LANDOWNERS: BROWN, BUTTERBAUGH, MOORE
EPA FUNDING : SECTION 319 CLEAN WATER
president - wcwa
Growing Greener
Earthtech, Inc.
DEP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