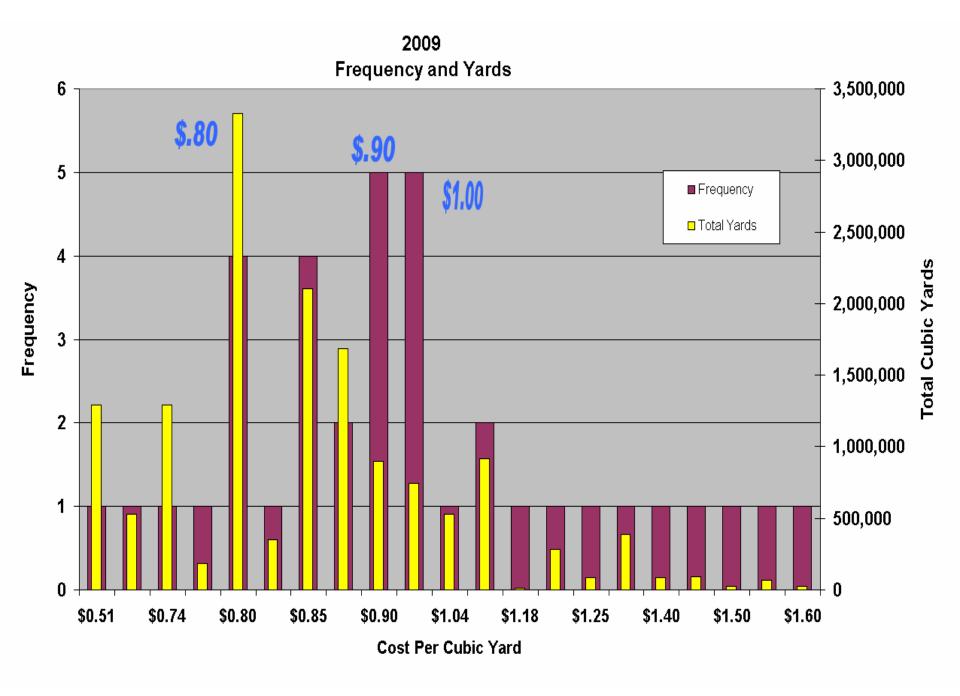
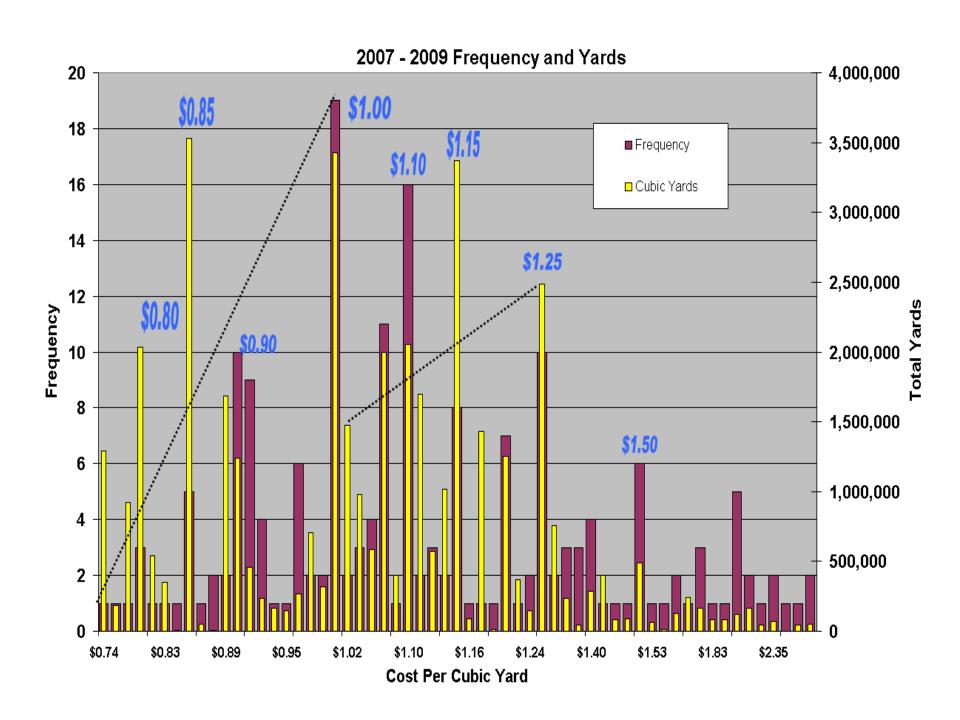
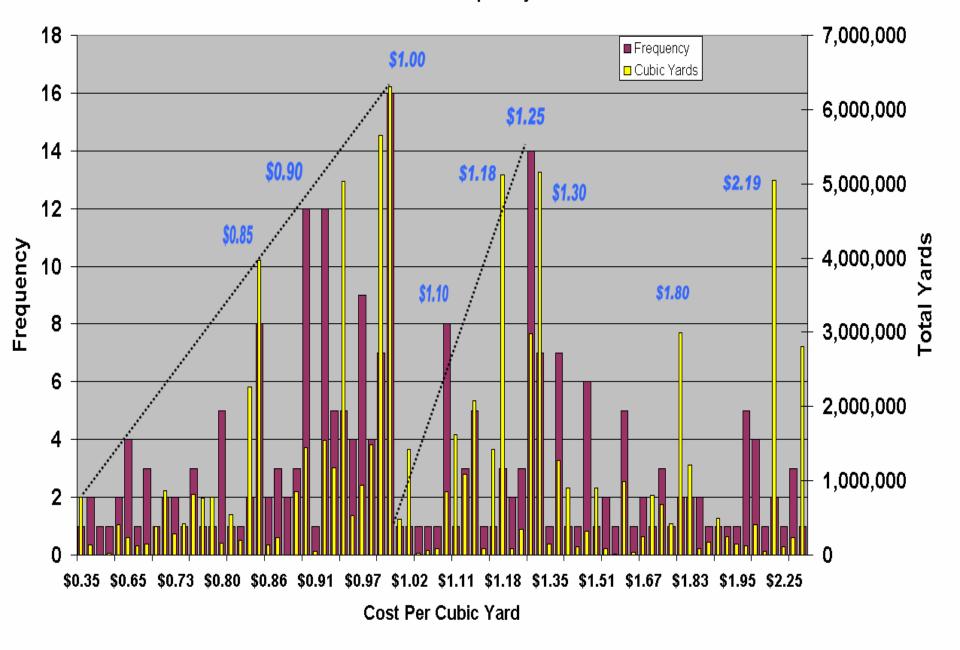
20	009 AML R	eclamati	ion Gra	ding Costs	- 3 Lo	west Proje	ct Bids	:	Ave Grading Costs/CY	Ave Grading Cos for All Projects
	DESCRIPTION	QUANTITIES	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL		
Reclamation Project	Task	Cubic Yards	Cost per CY	Low Project Bid	Cost per CY	2nd Project Bid	Cost per CY	3rd Project Bid		
OSM 11(0838)101.1	Grading	88,300	\$0.90	\$79,470.00	\$1.40	\$123,620.00	\$1.25	\$110,375.00		
OSM 24(0504)101.1	Grading	506,239	\$0.89	\$450,552.71	\$0.80	\$404,991.20	\$0.90	\$455,615.10		
OSM 37(4481)101.1	Grading	26,000	\$0.90	\$23,400.00	\$1.60	\$41,600.00	\$1.50	\$39,000.00		
OSM 17(6801)101.1	Grading									
	a) Area "A"	349,000	\$0.85	\$296,650.00	\$0.80	\$279,200.00	\$0.83	\$289,670.00		
	b) Area "B"	1,182,000	\$0.85	\$1,004,700.00	\$0.80	\$945,600.00	\$0.89	\$1,051,980.00		
OSM 10(4330)101.1	Grading	91,500	\$1.49	\$136,335.00	\$0.90	\$82,350.00	\$1.00	\$91,500.00		
OSM 16(0986)101.1	Grading	185,000	\$0.76	\$140,600.00	\$0.85	\$157,250.00	\$0.90	\$166,500.00		
OSM 16(6204)201.1	Grading	1,290,000	\$0.51	\$657,900.00	\$0.74	\$954,600.00	\$0.80	\$1,032,000.00		
OSM 43(0116)101.1	Grading									
	a) Area "A"	15,000	\$1.00	\$15,000.00	\$3.00	\$45,000.00	\$1.18	\$17,700.00		
	b) Area "B"	65,000	\$1.00	\$65,000.00	\$2.00	\$130,000.00	\$1.53	\$99,450.00		
	c) Area "C"	285,000	\$1.00	\$285,000.00	\$1.00	\$285,000.00	\$1.24	\$353,400.00		
OSM 35(3738)102.1	Grading									
,,	A) Borrow Area	526,965	\$1.04	\$548,043.60	\$1.15	\$606,009.75	\$0.73	\$384,684.45		
	B) Grading Area	387,635	\$0.85	\$329,489.75	\$1.15	\$445,780.25	\$1.28	\$496,172.80		
9										
		4,997,639	0.81	\$4,032,141.06	\$0.90	\$4,501,001.20	\$0.92	\$4,588,047.35	\$0.88	\$4,373,729.87

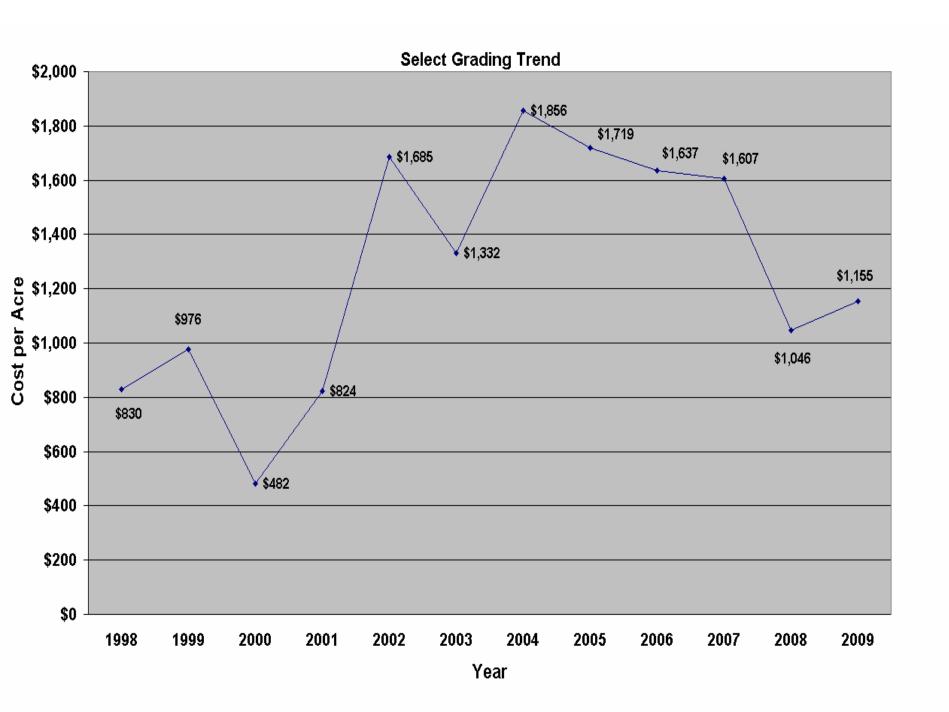


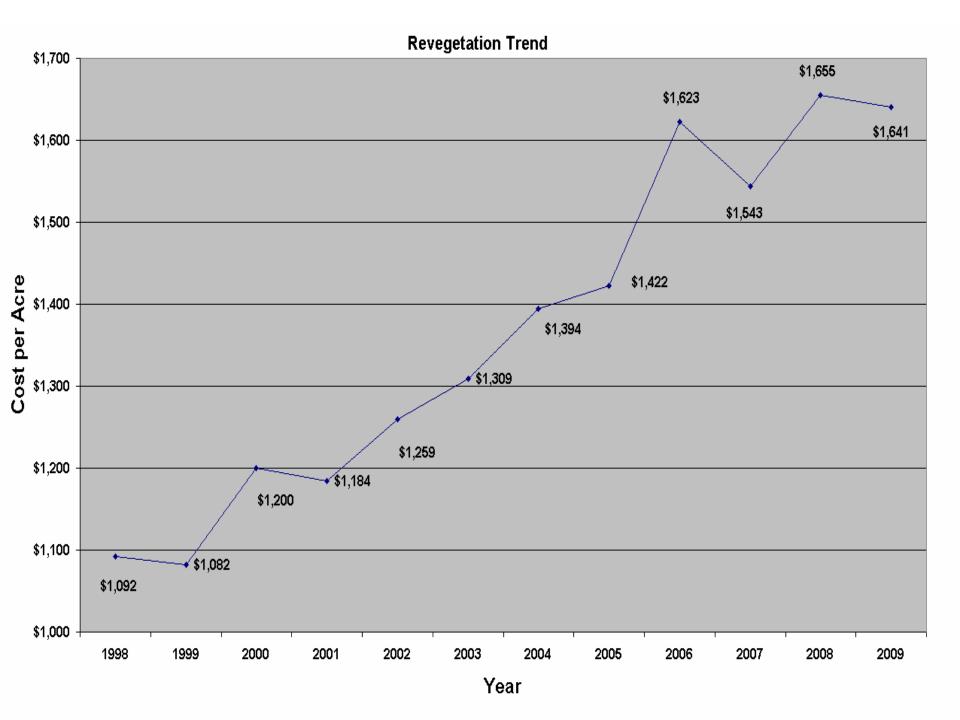


2005 - 2007 Frequency and Yards



	Total Grading Costs for 2007 - 2009										
Unit	2007 Total	2007	2008 Total	2008	2009 Total	2009	Combined Total	Combined			
Cost	Yards	Freq	yards	Freq	Yards	Freq	Yards	Freq			
\$0.51			_	•	1,290,000	1	1,290,000	1	\$657,900		
\$0.73					526,965	1	526,965	1	\$384,684		
\$0.74					1,290,000	1	1,290,000	1	\$954,600		
\$0.76					185,000	1	185,000	1	\$140,600		
\$0.77			924,000	1			924,000	1	\$711,480		
\$0.80					2,037,239	3	2,037,239	3	\$1,629,791		
\$0.81	538,800	1					538,800	1	\$436,428		
\$0.83					349,000	1	349,000	1	\$289,670		
\$0.84			8,350	1			8,350	1	\$7,014		
\$0.85	1,427,670	1			2,103,635	4	3,531,305	5	\$2,998,078		
\$0.86	53,227	1					53,227	1	\$45,775		
\$0.88	4,300	2					4,300	2	\$3,784		
\$0.89	·				1,688,239	2	1,688,239	2	\$1,502,533		
\$0.90	335,411	4	8,350	1	897,039	5	1,240,800	10	\$1,115,479		
\$0.92	409,289	8	48,750	1	·		458,039	9	\$421,396		
\$0.93	149,000	2	87,750	2			236,750	4	\$220,651		
\$0.94	165,790	1	i i				165,790	1	\$155,843		
\$0.95	149,300	1					149,300	1	\$141,835		
\$0.97	269,809	6					269,809	6	\$261,715		
\$0.98	704,590	2					704,590	2	\$690,498		
\$0.99	315,090	2					315,090	2	\$311,939		
\$1.00	843,251	4	1,843,741	10	741,500	5	3,428,492	19	\$3,428,492	19,395,085	\$0.85
\$1.02	1,427,670	1	45,670	1			1,473,340	2	\$1,502,807		
\$1.03			982,201	3			982,201	3	\$1,011,667		
\$1.04	22,000	1	34,980	2	526,965	1	583,945	4	\$607,303		
\$1.05	66,000	1	1,928,492	10			1,994,492	11	\$2,094,217		
\$1.06			400,517	1			400,517	1	\$424,548		
\$1.10	40,989	2	2,014,112	14			2,055,101	16	\$2,260,611		
\$1.11	1,617,850	1	81,000	1			1,698,850	2	\$1,885,724		
\$1.13			575,080	3			575,080	3	\$649,840		
\$1.14			1,016,500	2			1,016,500	2	\$1,158,810		
\$1.15	1,738,893	3	718,800	3	914,600	2	3,372,293	8	\$3,878,137		
\$1.16	86,253	1					86,253	1	\$100,053		
\$1.17	1,427,670	1					1,427,670	1	\$1,670,374		
\$1.18							15,000	1	\$17,700		
\$1.20	61,165	1	1,193,300	6			1,254,465	7	\$1,505,358		
\$1.22			367,000	1			367,000	1	\$447,740		
\$1.24	143,427	2					143,427	2	\$177,849		
\$1.25	2,000,601	8	400,517	1	88,300	1	2,489,418	10	\$3,111,773	19,935,552	\$1.13





Summary	of Ca	lculated	Bond R	ates by	Task									Pr	oposed Ra	tes		
		2007 wgt		2008 wgt		2009 wgt		05-07	06-08	07-09				Revised				
	Unit	ave	2007 amt	ave	2008 amt	ave	2009 amt	Weighted	Weighted	Weighted	4year	5year	2006	2006	2007	2008	2009	2010
Grading1	Yd	\$1.10	6,093,860	\$1.15	4,987,709	\$0.88	4,997,639	\$1.31	\$1.35	\$1.05	\$1.27	\$1.24	\$0.60	\$0.65	\$0.75	\$0.90	\$0.95	\$0.85
Grading2	Yd												\$0.90	\$0.95	\$1.10	\$1.20	\$1.20	\$1.10
Select Grading	Acre			\$1,045.53	160.5			\$1,667.13	\$1,155.03	\$1,045.53	\$1,155.03	\$1,210.53	\$1,100.00	\$1,300.00	\$1,600.00	\$1,600.00	\$1,250.00	\$1,150.00
Reveg	Acre	\$1,543.36	225.8	\$1,655.36	227.3	\$1,640.77	297.4	\$1,533.75	\$1,616.37	\$1,615.88	\$1,620.13	\$1,554.29	\$1,300.00	\$1,350.00	\$1,480.00	\$1,530.00	\$1,600.00	\$1,615.00
Trees	each	\$1.97	29,965.0	\$2.02	47,325.0	\$1.81	33,507.0	\$1.91	\$1.93	\$1.94	\$1.92	\$1.92						
Ditch Ex	Yd	\$5.47	32,325.0	\$3.83	34,666.0	\$4.23	12,171.0	\$5.77	\$5.22	\$4.56	\$5.12	\$5.25	\$4.50	\$4.60	\$5.00	\$5.50	\$5.25	\$4.55
Jute	sq yd	\$6.17	975.0	\$3.30	1,950.0			\$4.97	\$4.44	\$4.26	\$4.44	\$4.71	\$2.20	\$2.45	\$3.00	\$3.25	\$3.25	\$3.30
HV Erosion	sq yd			\$3.39	6,125.0	\$2.42	2,700.0	\$3.61	\$3.71	\$3.09	\$3.54	\$3.44	\$2.00	\$2.20	\$2.80	\$2.80	\$3.50	\$3.00
R3	sq yd			\$26.73	300.0			\$27.87	\$26.91	\$26.73	\$26.91	\$26.91	\$18.00	\$18.00	_	\$18.00	\$25.00	\$26.00
R4	sq yd			\$22.98	2,970.0	\$18.19	5,230.0	\$22.65	_	\$19.93	\$19.13	\$21.77	\$23.75	\$23.75	<u> </u>	\$24.00	\$22.00	\$20.00
R5	sq yd	\$16.08	1,130.0	\$17.59	7,460.0	\$23.07	3,090.0	\$26.72	\$21.03	\$18.90	\$21.39	\$23.13	\$17.00	\$18.00	\$19.00	\$19.50	\$21.00	\$19.00
Geotex	sq yd	\$5.07	530.0	\$1.71	12,151.0			\$3.32	\$2.00	\$1.85	\$2.00	\$2.03	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$1.70
PVC lining	sq yd	\$14.68	7,220.0					\$12.45	\$12.16	\$14.68	\$12.16	\$12.45	\$9.50	\$9.50	\$10.00	\$11.00	\$11.00	\$12.00
Lime	Ton	\$41.71	1,167.0	\$43.66	806.1	\$38.33	2,192.0	\$40.18	\$40.84	\$40.31	\$40.02	\$39.60						
Subdrain	foot	\$15.66	3,771.0	\$20.84	1,750.0	\$15.03	815.0	\$18.25	\$18.69	\$17.01	\$18.42	\$18.40	\$10.00	\$10.90	\$12.00	\$13.00	\$18.50	\$17.00
Mulch	Acre	\$564.79	300.60	\$634.42	155.3	\$589,38	419.4	\$525.66	\$579.07	\$588.93	\$582.14	\$548.43						
Seed Bed Prep	Acre	\$221.45	300.60	\$226.58	180.8	\$206.05	419.4	\$215.29	\$227.53	\$215.31	\$221.27	\$214.31						
Seed	Acre	\$207.27	437.6	\$206.95	398.3	\$158.10	607.8	\$200.79	\$233.57	\$186.48	\$216.89	\$194.48						
		2008	2008	2009	2009	2010	2010											
R	eveg Tot	\$1,530.00	\$1,530.00		\$1,600.00	\$1,615.00	\$1,615.00											
	Mulch	\$525.00	\$525.00	\$580.00	\$580.00	\$590.00	\$590.00											
9	Seed Bed	\$215.00	\$215.00	\$225.00	\$225.00	\$215.00	\$215.00											
	Seed	\$200.00	·	\$230.00		\$190.00												
		\$590.00	\$790.00	\$565.00	\$795.00	\$620.00	\$810.00											
		Cropland	w/Seed	Cropland	w/Seed	Cropland	w/Seed											

H : 0	TT '- 3 #	II : (C) ((b)
Unit Operation	Unit Measure	Unit Costs (\$)
Mobilization/demobilization	Job	4% of direct costs or \$40,000,
Wiodinzation/demodinzation	J 00	whichever is less
Grading (< 500-foot push)	cubic yard	0.85 (0.95)
Grading (≥500-foot push/haul)	cubic yard	1.10 (1.20)
Selective Grading	Acre	
		1,150.00 (1,250.00)
Revegetation	Acre Tree	1,615.00 (1,600.00)
Tree Planting		0.15
Ditch Excavation	cubic yard	4.55 (5.25)
Jute Matting	square yard	3.30 (3.25)
High Velocity Erosion Control	square yard	3.00 (3.50)
R3 Rock Lining	square yard	26.00 (25.00)
R4 Rock Lining	square yard	20.00 (22.00)
R5 Rock Lining	square yard	19.00 (21.00)
Geotextile/Filter Fabric	square yard	1.70 (2.00)
PVC Lining ¹	square yard	12.00 (11.00)
Subsurface Drain	lineal foot	17.00 (18.50)
Erosion and Sedimentation	Job	Lump sum
Control (Temporary Installation)		(5% of direct costs for site)
Pond Removal Active Phase ²	Pond	3,800.00
Erosion and Sedimentation	Job	Lump sum
Control (Temporary Installation)		(5% of direct costs for site)
Stage 3 Maintenance Bond Non-	Acre	100.00
Cropland Areas (Land uses where		
crop yields are not required)		
Stage 3 Maintenance Bond	Acre	600 (550.00)
Cropland (not row crops)		
Pastureland or Land occasional cut		
for hay (excludes seed cost)		
Stage 3 Maintenance Bond	Acre	800 (800.00)
Cropland Area-Row Crops		
(includes seed cost)		
Stage 3 Mobilization	Job	2,500.00
Pond Removal-Stage 3	Cubic yards	Use <500 grading for pond
	(Embankment volume)	embankment volume plus
	Plus Topsoiling &	Topsoiling & Revegetation
	Revegetation Cost	cost for the area disturbed
Ditch Removal-Stage 3	Lineal Foot	0.65
Equipment Tire Removal and	Tire	300.00
Disposal		

Structure Demolition	Costs will be calculated using costs listed in the construction industry's latest annual cost publications,							
	such as Means Building Construction Cost Data.							
	shaft (10 ft. or less diameter)	1,400.00						
Mine Sealing ³	shaft (11 to 15 ft. diameter)	3,000.00						
Non-hydraulic shaft seal – inert fill	shaft (16 to 20 ft. diameter)	4,500.00						
	shaft (21 to 25 ft. diameter)	8,000.00						
	shaft (10 ft. or less diameter)	7,600.00						
Mine Sealing ³	shaft (11 to 15 ft. diameter)	9,200.00						
Hydraulic shaft seal w/ bulkhead	shaft (16 to 20 ft. diameter)	10,700.00						
	shaft (21 to 25 ft. diameter)	14,200.00						
Mine Sealing ³	drift / slope	3,900.00						
Non-hydraulic drift / slope seal	•	,						
Mine Sealing ³	drift / slope	6,200.00						
Hydraulic drift / slope seal w/	_							
bulkhead								