



**New York State Bridge Authority
Capital Improvement Program
2009 - 2013
(\$ 000,000's)**

09/09/2008

FACILITY	2008	PROGRAM YEARS					FIVE YEAR TOTAL
		2009	2010	2011	2012	2013	
Rip Van Winkle Bridge	\$5.800	\$0.000	\$0.000	\$0.000	\$0.300	\$0.000	\$0.300
Kingston-Rhinecliff Bridge	\$0.150	\$0.350	\$0.000	\$0.500	\$1.250	\$0.000	\$2.100
Mid-Hudson Bridge	\$1.150	\$2.510	\$0.000	\$0.000	\$6.850	\$1.500	\$10.860
Newburgh-Beacon Bridge	\$0.750	\$5.300	\$6.250	\$6.250	\$6.250	\$28.000	\$52.050
Bear Mountain Bridge	\$1.710	\$0.000	\$0.000	\$0.000	\$3.500	\$0.350	\$3.850
Systemwide (Engineering)	\$0.875	\$1.110	\$1.525	\$1.025	\$1.125	\$1.025	\$5.810
Systemwide (IT Dept.)	\$0.870	\$2.018	\$1.703	\$2.420	\$0.508	\$0.558	\$7.207
Systemwide (Administration)	\$0.020	\$0.370	\$0.020	\$0.020	\$0.020	\$0.020	\$0.450
Systemwide (Operations)	\$0.020	\$0.045	\$0.245	\$1.000	\$0.020	\$0.020	\$1.330
Capital Program Totals.....	\$11.345	\$11.703	\$9.743	\$11.215	\$19.823	\$31.473	\$83.957

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
R0001	Preventive Maintenance	Rip Van Winkle Bridge - Pier Base Repairs Concrete Repairs, Masonry Pointing, Rip-Rap - 2012 Rip-Rap - 2008	P&E							0.000	Review for need after 2012 underwater inspection.	
			ROW						0.000			
			CONST	0.200				0.300	0.300			
			OTHER						0.000			
			TOTAL	0.200	0.000	0.000	0.000	0.300	0.000	0.300		
R0002	Preventive Maintenance	Rip Van Winkle Bridge - Painting Full structure coating in full compliance with lead abatement regulations. Thru-Truss including Railings	P&E	0.250						0.000	Deck truss spans, steel pier bents and east approach girder spans have been deleaded and repainted between 1995-2001.	
			ROW						0.000			
			CONST	4.850					0.000			
			OTHER						0.000			
			TOTAL	5.100	0.000	0.000	0.000	0.000	0.000	0.000		
R0003	Preventive Maintenance	Rip Van Winkle Bridge - Seal Deck and Pedestrian Walkway Bridge Deck overlay - "Nova-Chip" - \$0.350 Sidewalk resurfacing - \$0.150	P&E							0.000		
			ROW						0.000			
			CONST	0.500					0.000			
			OTHER						0.000			
			TOTAL	0.500	0.000	0.000	0.000	0.000	0.000	0.000		

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
M0001	Extra Maintenance	Mid-Hudson Bridge - Substructure Repairs Approach Substructure - Concrete Repairs	P&E								0.000	
			ROW								0.000	
			CONST					0.250			0.250	
			OTHER								0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.250	0.000		0.250	
M0002	Facility Improvement	Mid-Hudson Bridge - Seismic Retro-fit	P&E								0.000	Review for need
			ROW								0.000	
			CONST					3.000			3.000	
			OTHER								0.000	
			TOTAL	0.000	0.000	0.000	0.000	3.000	0.000		3.000	
M0003	Extra Maintenance	Mid-Hudson Bridge - East Approach Viaduct Deck and Ramp Repairs	P&E								0.000	
			ROW								0.000	
			CONST	0.500							0.000	
			OTHER								0.000	
			TOTAL	0.500	0.000	0.000	0.000	0.000	0.000		0.000	

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
M0004	Preventive Maintenance	Mid-Hudson Bridge - Maintenance Painting Stiffening truss and towers	P&E							0.000	\$250K Post 2012	
			ROW						0.000			
			CONST						0.000			
			OTHER						0.000			
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
M0005	Facility Rehab.	Mid-Hudson Bridge - Main Cable Inspection Periodic re-examination of interior wires to determine rate of deterioration and re-calculate useful life to be performed on a 5 year cycle. 2009 Evaluation and Inspection of the Main Cable * Federation participation of BTC model for suspension bridge main cable, parallel strand strength by Bridge Technology Consulting. <i>Evaluate going to 8 - 10 year inspection cycle</i>	P&E							0.000	*NYSDOT Reimbursement \$250K	
			ROW							0.000		
			CONST		2.000					2.000		
			OTHER		-0.250					-0.250		
			TOTAL	0.000	1.750	0.000	0.000	0.000	0.000	1.750		
M0006	Facility Rehab.	Mid-Hudson Bridge - Main Span & Approach Overlay	P&E							0.000		
			ROW							0.000		
			CONST						1.500	1.500		
			OTHER							0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	1.500	1.500		

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
M0007	Facility Improvement	Mid-Hudson Bridge - East End Variable Message Sign and additional Lane Use Signals, BA2001-101 Optional east end variable message warning sign for westbound traffic, west VMS & LUS's and security cameras. NYSDOT Reimbursement - \$1 mil 2008	P&E							0.000		
			ROW							0.000		
			CONST							0.000		
			OTHER	-1.000						0.000		
			TOTAL	-1.000	0.000	0.000	0.000	0.000	0.000	0.000		
M0008	Facility Improvement	Mid-Hudson Bridge - Facility \ Utility Upgrade Replace existing Star Building	P&E							0.000		
			ROW							0.000		
			CONST	1.500						0.000		
			OTHER							0.000		
			TOTAL	1.500	0.000	0.000	0.000	0.000	0.000	0.000		
M0009	Preventive Maintenance	Mid-Hudson Bridge - Pier Base Repairs and Rip-Rap Placement.	P&E							0.000	Review for need after 2012 underwater inspection.	
			ROW							0.000		
			CONST					0.600		0.600		
			OTHER							0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.600	0.000	0.600		

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							Remarks
				2008	2009	2010	2011	2012	2013	TOTAL	
M0010	Facility Improvement	Mid-Hudson Bridge - Building Renovations Administration Building:Roof, HVAC, Windows & Door replacement.	P&E	0.075						0.000	
			ROW						0.000		
			CONST		0.700				0.700		
			OTHER					0.000			
			TOTAL	0.075	0.700	0.000	0.000	0.000	0.000	0.700	
M0011	Preventive Maintenance	Mid-Hudson Bridge - West Approach Rock Scaling Remove loose rock from approach rock cut areas. Drainage and Highway repairs.	P&E						0.000		
			ROW					0.000			
			CONST	0.075	0.060			0.060			
			OTHER					0.000			
			TOTAL	0.075	0.060	0.000	0.000	0.000	0.000		0.060
M0012	Facility Rehab.	Mid-Hudson Bridge - E. Approach Viaduct Spans Full structure(s) coating in full compliance with lead abatement regulations, including arch truss over Metro-North rail line.	P&E						0.000	Review for need in 2010 - moved \$3 mil from from 2011 to 2012.	
			ROW					0.000			
			CONST				3.000	3.000			
			OTHER					0.000			
			TOTAL	0.000	0.000	0.000	0.000	3.000	0.000		3.000

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
N0004	Preventive Maintenance	Newburgh-Beacon Bridge - South Span Painting Clean and paint selected weathering steel surfaces with a corrosion preventive coating system.	P&E							0.000	\$5 mil orginally scheduled for 2012, move to 2013 - 2015 deck replacement contract.	
			ROW						0.000			
			CONST						0.000			
			OTHER						0.000			
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
N0005	Extra Maintenance	Newburgh-Beacon Bridge - North Span Replace 15 Modular Joints	P&E	0.150						0.000		
			ROW						0.000			
			CONST		5.000				5.000			
			OTHER						0.000			
			TOTAL	0.150	5.000	0.000	0.000	0.000	0.000	5.000		
N0006		Intentionally Left Blank	P&E							0.000		
			ROW						0.000			
			CONST						0.000			
			OTHER						0.000			
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks	
				2008	2009	2010	2011	2012	2013				
N0007	Extra Maintenance	Newburgh-Beacon Bridge - Pier Base Repairs Misc. pier base repairs 2008 Substructure re-pointing & concrete repairs Seal Pier Tops -2012, review for need and possible in-house project.	P&E	0.050							0.000		
			ROW								0.000		
			CONST	0.150				0.250		0.250			
			OTHER							0.000			
			TOTAL	0.200	0.000	0.000	0.000	0.250	0.000	0.250			
N0008	Facility Improvement	Newburgh-Beacon Bridge - Interchange Improvement East End Rte 9D / I-84 Upgrade	P&E								0.000	Potential Federation Project, Post 2012 \$30 mil	
			ROW								0.000		
			CONST								0.000		
			OTHER								0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
N0009	Facility Improvement	Newburgh-Beacon Bridge - Route 9W Overpass West End I-84 Structure over Route 9W to be replaced. Discuss with NYSDOT	P&E								0.000	Inspectors recommended replacement of this structure in the period 2001 to 2005. A. Low Fatigue capacity B. Low Clearance C. No shoulders NYSDOT has indicated that they would be replacing this structure. Removed \$5 mil from capital prog. in 2003. Current estimate - \$10 mil	
			ROW										0.000
			CONST								0.000		
			OTHER								0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000			

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
N0010		Intentionally Left Blank	P&E							0.000		
			ROW							0.000		
			CONST							0.000		
			OTHER							0.000		
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
N0011	Investigation	Newburgh-Beacon Bridge - Eastbound & Westbound I-84 Weigh-in-Motion (WIM) Study NYSDOT Estimated Project Cost NYSDOT Participation - Reimbursement	P&E							0.000	Virtual Weigh Station, WIM Scale and Video system with communication capabilities.	
			ROW									0.000
			CONST		0.650							0.650
			OTHER		-0.350							-0.350
			TOTAL	0.000	0.300	0.000	0.000	0.000	0.000	0.300		
N0012		Intentionally Left Blank	P&E							0.000		
			ROW									0.000
			CONST									0.000
			OTHER									0.000
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
B0001	Facility Rehab.	Bear Mountain Bridge - Toll Plaza Rehab & Paving	P&E							0.000		
			ROW						0.000			
			CONST				0.500		0.500			
			OTHER						0.000			
			TOTAL	0.000	0.000	0.000	0.000	0.500	0.000	0.500		
B0002		Intentionally Left Blank	P&E							0.000		
			ROW						0.000			
			CONST						0.000			
			OTHER						0.000			
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
B0003	Preventive Maintenance	Bear Mountain Bridge - Mill and Fill Existing Deck Asphalt overlay. Deck repairs and NovaChip overlay	P&E							0.000		
			ROW						0.000			
			CONST	0.400					0.000			
			OTHER						0.000			
			TOTAL	0.400	0.000	0.000	0.000	0.000	0.000	0.000		

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
B0004	Facility Rehab.	Bear Mountain Bridge - Cable Inspection Periodic evaluation of the rehabilitated cable completed in 2001, 5 yr cycle > to 6yr. field activities completed 2007 Next scheduled inspection 2017 (\$3 mil)	P&E	0.200							0.000	Field activities including installation of scaffolding, unwrapping, wedging and re-wrapping of the main cable at 8 locations. Sampling and analysis of the remaining main cable strength shall be in accordance with NCHRP 534 (National Cooperative Highway Research Program). Replace 3 suspender cables. 2008 results may warrant the extension of the present 5 yr. cycle for inspection to 8 yrs., or (10 yrs.) 2017. \$2 mil budgeted for 2012 allocated to N0002 - N. Span Painting
			ROW								0.000	
			CONST	0.280							0.000	
			OTHER								0.000	
			TOTAL	0.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
B0005	Facility Rehab.	Bear Mountain Bridge - East Approach Retaining Wall Stabilization Install concrete buttresses, electrical and ITS upgrade for security monitoring.	P&E								0.000	
			ROW								0.000	
			CONST	0.730							0.000	
			OTHER								0.000	
			TOTAL	0.730	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
B0006	Extra Maintenance	Bear Mountain Bridge - Steel Repairs Misc. stringer seat repairs Tack Weld Removal Floorbeam partial length bottom cover plate retro-fit In-House Repairs, budget reduced \$0.300	P&E								0.000	
			ROW								0.000	
			CONST	0.100							0.000	
			OTHER								0.000	
			TOTAL	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2008	2009	2010	2011	2012	2013		
B0007	Preventive Maintenance	Bear Mountain Bridge - Maintenance Painting Towers and stiffening truss	P&E							0.000	
			ROW							0.000	
			CONST					1.000		1.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	1.000	0.000	1.000	
B0008	Extra Maintenance	Bear Mountain Bridge - Main Cable Safety Handrope Replacement	P&E							0.000	
			ROW							0.000	
			CONST					2.000		2.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	2.000	0.000	2.000	
B0009	Preventive Maintenance	Bear Mountain Bridge - Substructure Repairs	P&E							0.000	
			ROW							0.000	
			CONST						0.350	0.350	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.350	0.350	

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2008	2009	2010	2011	2012	2013		
S0001	Investigation	Annual Bridge Inspection - General Consultant Annual detailed inspection of approaches, structures, and decks with hands on inspection of all fracture critical members. <u>THIS FUNCTION IS CHARGED TO THE OPERATING FUND. \$600K ANNUALLY.</u>	P&E							0.000	
			ROW							0.000	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
S0002	Investigation	Periodic Underwater Bridge Inspections Diver and, as appropriate, video tape inspections of all Authority in water piers below the water surface. Work to include analysis and recommendations by professional engineers, 5 yr. cycle	P&E							0.000	
			ROW							0.000	
			CONST							0.000	
			OTHER					0.100		0.100	
			TOTAL	0.000	0.000	0.000	0.000	0.100	0.000	0.100	
S0003	Extra. Maintenance	Systemwide Miscellaneous Maintenance Pothole repairs, spot resurfacing, guide rail replacement and repair, drainage and shoulder upgrades where and when needed. Jobs requiring skills and/or equipment not available to in-house maintenance forces. Sys - Misc. Bldg. Maintenance and Repairs, \$10K annual Urgent Bridge & Highway Repairs	P&E								This is an allocation for response to developing needs. < In - House Construction Activities < Misc. Bldg. Maintenance & Repairs < Bridge & Highway Repairs
			CONST	0.200	0.200	0.200	0.200	0.200	0.200	1.000	
			CONST	0.010	0.010	0.010	0.010	0.010	0.010	0.050	
			OTHER	0.100	0.250	0.250	0.250	0.250	0.250	1.250	
			TOTAL	0.310	0.460	0.460	0.460	0.460	0.460	2.300	

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Project I.D.	Project Type	Project Title/Description	Phase	Program Years						TOTAL	Remarks
				2008	2009	2010	2011	2012	2013		
S0004	Facility Improvement	Systemwide Site Mapping Development of site maps and physical facility database for each bridge, to be compatible with Bridge Authority CADD technology. To be used as initial data for all future capital projects. Annual update of site maps for contract improvements including underground utilities.	P&E	0.015	0.100	0.015	0.015	0.015	0.015	0.160	
			ROW							0.000	
			CONST							0.000	
			OTHER							0.000	
			TOTAL	0.015	0.100	0.015	0.015	0.015	0.015	0.160	
S0005	Equipment	Systemwide - Equipment Purchases, Maintenance Acquisition of major extraordinary vehicles and equipment necessary to operate and maintain the bridge system.	P&E							0.000	
			ROW							0.000	
			CONST							0.000	
			OTHER	0.550	0.550	0.550	0.550	0.550	0.550	2.750	
			TOTAL	0.550	0.550	0.550	0.550	0.550	0.550	2.750	
S0006	Extra Maintenance	Kingston-Rhinecliff and Mid-Hudson Plaza HVAC Replace Toll Plaza HVAC for Toll booths, 1994 vintage	P&E							0.000	
			ROW							0.000	
			CONST			0.500				0.500	
			OTHER							0.000	
			TOTAL	0.000	0.000	0.500	0.000	0.000	0.000	0.500	

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Project I.D.		Project Title/Description	Item	Program Years						TOTAL	Remarks
				2008	2009	2010	2011	2012	2013		
S0009	IT	Systemwide - Equipment Purchases, Operations 1) Office Equipment (Copier, printers, plotter) 2) PC Upgrade (System Hardware) 3) Systemwide projects 4) Firewall/Virtual Private Network (VPN)	(1)	0.030	0.008	0.008	0.030	0.008	0.010	0.064	2009 - Includes \$200K Upgrade for AS 400
			(2)	0.030	0.030	0.030	0.030	0.030	0.030	0.150	
			(3)	0.075	0.300	0.100	0.050	0.050	0.050	0.550	
			(4)	0.010	0.015	0.020	0.010	0.010	0.020	0.075	
			TOTAL	0.145	0.353	0.158	0.120	0.098	0.110	0.839	
S0010	IT	Newburgh-Beacon - VMS (Variable Message Sign) (1) Procure, Program and Install New VMS's (2) Gantry Replacement, relocate VMS's								0.000	
			(1)	0.250						0.000	
			(2)		0.750					0.750	
										0.000	
			TOTAL	0.250	0.750	0.000	0.000	0.000	0.000	0.750	
S0011	IT	Electronic Data Processing (EDP) Upgrade 1) Windows file Server 2) Consulting (ITS) 3) Data Cabling 4) Toll System Enhancements	(1)	0.015	0.015	0.080	0.015	0.015	0.080	0.205	
			(2)	0.125	0.125	0.125	0.125	0.125	0.125	0.625	
			(3)	0.020	0.020	0.020	0.020	0.020	0.020	0.100	
			(4)	0.275	0.100	0.135	0.600	0.050	0.050	0.935	
			TOTAL	0.435	0.260	0.360	0.760	0.210	0.275	1.865	

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				2008	2009	2010	2011	2012	2013			
S0012	IT	LUS, Cameras, Misc. Replacement 1) Lane Use Signals (LUS) 2) Cameras 3) Miscellaneous, ITS Components 2011								0.000		
			(1)		0.010	0.015	0.017	0.020	0.023	0.085		
			(2)		0.025	0.070	0.045	0.055	0.100	0.295		
			(3)		0.010	0.010	0.260	0.010	0.010	0.300		
			TOTAL	0.000	0.045	0.095	0.322	0.085	0.133	0.680		
S0013	IT	UPS (Un-interruptable Power System) Systemwide 1) Maintenance & Batteries								0.000 0.000		
			(1)	0.015	0.010	0.010	0.050	0.010	0.010	0.090 0.000		
										0.000 0.000		
										0.000		
			TOTAL	0.015	0.010	0.010	0.050	0.010	0.010	0.090		
S0014	IT	Systemwide - Security Systems, Traffic Cameras 1) System Integration (SI) Includes, software, equipment, communication, etc. 2) Civil Engineering Contract VMS/LUS Upgrade, structural steel brackets, poles, Security Cameras, etc. 3) Transcom Transponders (NBB) 4) Security Gates	(1)		<u>**BMB</u> 0.300	<u>KRB</u> 0.500	<u>RVWB</u> 0.500	0.100		1.400	Installation of passive and active security for facilities, toll plazas, and adjacent property areas. **BMB - To be substantially performed with in-house forces.	
			(2)		0.200	0.500	0.500			1.200		
			(3)		0.050					0.050		
			(4)	0.020	0.020				0.020			
			TOTAL	0.020	0.570	1.000	1.000	0.100	0.000	2.670		

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Operations

09-Sep-2008
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Project I.D.		Project Title/Description	Item	Program Years							TOTAL	Remarks
				2008	2009	2010	2011	2012	2013			
SO-001	OPS	E-Z PASS 1) Hardware, Possible MARK IV change in 2011 Note: Tag Purchases through Operating Budget 2) Cash-less Tolling Feasibility Study in 2010 AET (All Electronic Tolls)								0.000		
			(1)	0.020	0.020	0.020	1.000	0.020	0.020	1.080		
			(2)		0.025	0.225				0.250		
										0.000		
			TOTAL	0.020	0.045	0.245	1.000	0.020	0.020	1.330		
SO-002	OPS	Intentionally left blank										
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
SO-003	OPS	Intentionally left blank										
			TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000		