Annexture-IV

Check List of Fishes of Toranmal observed at Yashwant Lake in Satpura ranges during December 2006 to November 2008

Sr.No.	Species	Common name
	Order: Osteoglossiformes	
	Family: Notopteridae	
1	*Notopterus notopterus* (Pallas)	Feather Back
	Order: Cypriniformes	
	Family: Cyprinidae	
	Subfamily: Ciprininae	
2	*Catla catla* (Hum-Buch)	Catla
3	Cirrhinus mrigla (Hum-Buch)	Mrigal, Kandai
4	Cirrhinus reba (Hum-Buch)	Reba carp
5	Cyprinus corpio (Linn.)	Common carp
6	Labeo boggut (Sykes)	Bogga labeo
7	Puntius sophore (Hum-Buch)	--
8	Puntius ticto (Hum-Buch)	Khavali
	Subfamily: Cultrinae	
9	*Chela cachius* (Hum-Buch)	Sand, Palai
10	*Salmostoma boopis* (Day)	--
	Subfamily: Rasborinae	
11	*Barilus vagra* (Hum-Buch)	Danda, Gaimasa
12	*Rasbora daniconius* (Ham-Buch)	Danda
	Subfamily: Garrinae	
13	*Garra mullya* (Sykes)	Mallya
	Order: Siluriformes	
	Family: Siluridae	
14	*Ompok bimaculatus* (Bloch)	Butte catfish
	Family: Claridae	
15	*Clarius batracus* (Linn.)	--
	Family: Heteropneustidae	
16	*Heteropneusteus fossilis* (Bloch)	Bicchu ka kata
	Order: Percifprmes	
	Sub-Order: Percoidae	
	Family: Ambassidae	
17	*Chanda nama* (Ham-Buch)	Glassy pearch
18	*Pseudambasis ranga* (Ham-Buch)	Glassy Fish
	Family: Cichlidae	
19	*Oriochromis mossambica* (Peters)	Tilapia

Annexture: Va Pearson Correlation between Biotic and Abiotic parameters of YLA at Yashwant Lake during Dec. 2006 to Nov. 2008

	ACI	ALK	AT	BACIL	CHLORO	CL	CLADO	CO_2	COPE	DIANO	DO	EUGLE	MYXO	NO_2	NO_3	OSTRA	PH
ACI	1																
ALK	.942**	1															
AT	.813**	.707**	1														
BACIL	.915**	.818**	.748**	1													
CHLORO	0.29	0.393	-0.056	.428*	1												
CL	.955**	.864**	.772**	.975**	0.391	1											
CLADO	.826**	.760**	.668**	.809**	.509*	.861**	1										
CO_2	.806**	.724**	.965**	.726**	-0.042	.757**	.633**	1									
COPE	.815**	.713**	.738**	.812**	0.337	.828**	.831**	.728**	1								
DIANO	.774**	.598**	.775**	.845**	-0.06	.802**	.525**	.747**	.632**	1							
DO	-.574**	-.487*	-.844**	-.605**	0.041	-.556**	-.414*	-.871**	-.541**	-.699**	1						
EUGLE	-.744**	-.731**	-.506*	-.630**	-.415*	-.729**	-.746**	-.520**	-.678**	-0.322	0.259	1					
MYXO	0.297	0.394	-0.012	.442*	.982**	.410*	.531**	-0.015	0.364	-0.046	0.034	-0.382	1				
NO_2	.547**	.417*	.670**	0.312	-.458*	.443*	.425*	.672**	.453*	.440*	-0.347	-.434*	-.422*	1			
NO_3	-0.063	-0.146	0.124	-0.321	-.690**	-0.183	-0.07	0.106	-0.056	-0.12	0.14	-0.083	-.661**	.749**	1		
OSTRA	.698**	.544**	.692**	.581**	-0.247	.659**	.547**	.636**	.563**	.639**	-0.377	-.561**	-0.217	.845**	.494*	1	
PH	.883**	.770**	.897**	.891**	0.106	.886**	.721**	.885**	.773**	.892**	-.788**	-.540**	0.135	.534**	-0.073	.682**	1
PO_4	.682**	.571**	.811**	.479*	-0.351	.581**	.527**	.790**	.574**	.579**	-.488*	-.456*	-0.292	.942**	.597**	.844**	.701**
ROTI	.918**	.841**	.798**	.958**	.434*	.950**	.847**	.792**	.854**	.778**	-.677**	-.661**	.455*	0.366	-0.272	.581**	.926**
SPM	-0.167	-0.221	0.276	-0.299	-.733**	-0.277	-0.278	0.305	-0.181	0.049	-0.344	0.365	-.699**	.484*	.539**	0.232	0.072
SRB	-.746**	-.621**	-.759**	-.565**	0.307	-.670**	-.569**	-.743**	-.599**	-.652**	.450*	.531**	0.266	-.908**	-.530**	-.907**	-.724**
SRTP	.777**	.658**	.892**	.706**	-0.192	.716**	.561**	.884**	.664**	.804**	-.717**	-0.363	-0.141	.743**	0.231	.770**	.861**
SRTZ	.686**	.555**	.812**	.527**	-.466*	.585**	0.39	.807**	.516**	.744**	-.572**	-0.353	-.438*	.865**	.458*	.817**	.727**
TDB	-.738**	-.639**	-.820**	-.536**	0.345	-.637**	-.525**	-.833**	-.600**	-.645**	.547**	.536**	0.315	-.926**	-.531**	-.868**	-.738**
TDM	-0.1	-0.172	0.365	-0.23	-.691**	-0.208	-0.234	.418*	-0.066	0.09	-.454*	0.29	-.653**	.514*	.525**	0.227	0.126
TDP	.761**	.732**	.500*	.909**	.753**	.860**	.782**	.485*	.713**	.600**	-.424*	-.560**	.765**	-0.027	-.587**	0.267	.686**
TDS	.952**	.854**	.809**	.922**	0.27	.964**	.855**	.771**	.833**	.765**	-.546**	-.776**	0.291	.570**	-0.013	.777**	.873**
TDZ	.928**	.837**	.805**	.938**	.413*	.955**	.919**	.787**	.919**	.738**	-.614**	-.729**	.438*	.461*	-0.143	.646**	.899**
TH	0.304	0.323	0.177	.553**	.578**	.412*	0.222	0.194	0.23	.435*	-.453*	-0.047	.553**	-.515*	-.885**	-0.237	.411*
TRANS	-0.379	-0.34	-.620**	-0.096	.549**	-0.228	-0.226	-.641**	-0.276	-0.243	0.388	0.344	.518**	-.898**	-.750**	-.669**	-0.386
TS	.754**	.602**	.804**	.611**	-0.224	.712**	.640**	.765**	.678**	.645**	-.475*	-.622**	-0.187	.910**	.515*	.939**	.738**
TSS	0.029	-0.106	0.315	-0.182	-.770**	-0.061	-0.039	0.298	0.059	0.093	-0.091	-0.037	-.733**	.832**	.932**	.599**	0.11
WC	-.895**	-.809**	-.703**	-.960**	-.438*	-.941**	-.822**	-.695**	-.797**	-.801**	.578**	.617**	-.454*	-0.304	0.296	-.518**	-.880**
WT	.810**	.686**	.880**	.859**	0.133	.849**	.707**	.841**	.778**	.827**	-.764**	-.529**	0.173	.479*	-0.113	.620**	.908**

** Correlation is significant at the 0.01 level 2-tailed

* Correlation is significant at the 0.05 level 2-tailed

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Annexture: Va Pearson Correlation between Biotic and Abiotic parameters of YLA at Yashwant Lake during Dec. 2006 to Nov. 2008

	PO_4	ROTI	SPM	SRB	SRTP	SRTZ	TDB	TDM	TDP	TDS	TDZ	TH	TRANS	TS	TSS	WC	WT
ACI																	
ALK																	
AT																	
BACIL																	
CHLORO																	
CL																	
CLADO																	
CO_2																	
COPE																	
DIANO																	
DO																	
EUGLE																	
MYXO																	
NO_2																	
NO_3																	
OSTRA																	
PH																	
PO_4	1																
ROTI	.538**	1															
SPM	.416*	-0.186	1														
SRB	-.922**	-.585**	-0.266	1													
SRTP	.868**	.721**	0.339	-.828**	1												
SRTZ	.914**	.523**	.426*	-.890**	.899**	1											
TDB	-.955**	-.579**	-0.392	.944**	-.863**	-.943**	1										
TDM	.476*	-0.118	.938**	-0.287	.409*	.478*	-.444*	1									
TDP	0.157	.875**	-.534**	-0.232	.419*	0.149	-0.191	-.469*	1								
TDS	.678**	.916**	-0.202	-.779**	.760**	.665**	-.725**	-0.151	.752**	1							
TDZ	.605**	.978**	-0.193	-.653**	.727**	.551**	-.636**	-0.121	.841**	.944**	1						
TH	-0.315	.519**	-.418*	0.246	0.091	-0.168	0.247	-0.382	.703**	0.254	0.374	1					
TRANS	-.853**	-0.193	-.630**	.753**	-.636**	-.790**	.854**	-.659**	0.229	-0.372	-0.266	.545**	1				
TS	.919**	.635**	0.216	-.960**	.818**	.862**	-.925**	0.262	0.295	.828**	.716**	-0.238	-.743**	1			
TSS	.700**	-0.132	.663**	-.633**	.408*	.616**	-.646**	.672**	-.511*	0.095	-0.027	-.772**	-.808**	.637**	1		
WC	-.469*	-.943**	0.339	.570**	-.673**	-.481*	.504*	0.261	-.885**	-.897**	-.925**	-.543**	0.061	-.589**	0.187	1	
WT	.620**	.860**	-0.035	-.646**	.789**	.666**	-.662**	0.085	.674**	.849**	.855**	0.377	-0.338	.712**	0.095	-.833**	1

** Correlation is significant at the 0.01 level 2-tailed

* Correlation is significant at the 0.05 level 2-tailed

Annexture: Vb Pearson Correlation between Biotic and Abiotic parameters of YLB at Yashwant Lake during Dec. 2006 to Nov. 2008

	ACI	ALK	AT	BACIL	CHLOR	CL	CLADO	CO_2	COPE	DIANO	EUGL	MYXO	NO_2	NO_3	DO	OSTRA	PH
ACI	1																
ALK	.908**	1															
AT	.839**	.741**	1														
BACIL	.786**	.751**	.541**	1													
CHLOR	0.007	0.114	-0.371	.509*	1												
CL	.955**	.890**	.745**	.828**	0.152	1											
CLADO	.763**	.690**	.483*	.814**	0.36	.797**	1										
CO_2	.832**	.713**	.974**	.529**	-.410*	.725**	.504*	1									
COPE	.733**	.717**	.413*	.839**	.491*	.827**	.930**	.416*	1								
DIANO	.695**	.655**	.542**	.881**	0.358	.667**	.754**	.581**	.687**	1							
EUGL	-0.22	-0.257	0.204	-.611**	-.830**	-0.395	-.447*	0.25	-.570**	-0.369	1						
MYXO	-0.062	0.026	-.430*	.462*	.959**	0.106	0.334	-.447*	.466*	0.329	-.814**	1					
NO_2	.408*	0.316	.548**	-0.173	-.780**	0.315	0.047	.539**	-0.043	-0.127	.483*	-.784**	1				
NO_3	-0.244	-0.264	-0.098	-.704**	-.714**	-0.292	-0.37	-0.098	-.472*	-.613**	.540**	-.672**	.726**	1			
DO	-.638**	-.553**	-.824**	-.506*	0.217	-.512*	-.419*	-.864**	-0.355	-.584**	-0.289	0.286	-0.15	.410*	1		
OSTRA	.708**	.655**	.722**	0.256	-.421*	.659**	0.351	.693**	0.289	0.244	0.136	-.480*	.770**	0.369	-0.343	1	
PH	.916**	.810**	.903**	.723**	-0.13	.876**	.632**	.914**	.613**	.640**	-0.061	-0.18	0.371	-0.294	-.788**	.622**	1
PO_4	.623**	.513*	.795**	0.11	-.710**	.523**	0.219	.776**	0.116	0.135	.419*	-.736**	.921**	.483*	-.425*	.876**	.639**
ROTI	.955**	.862**	.893**	.807**	-0.038	.933**	.732**	.893**	.709**	.729**	-0.172	-0.091	0.357	-0.33	-.741**	.645**	.970**
SRB	-.712**	-.635**	-.764**	-0.245	.560**	-.674**	-0.311	-.763**	-0.283	-0.182	-0.225	.581**	-.849**	-0.353	.414*	-.842**	-.726**
SRM	0.083	0.026	.471*	-0.342	-.820**	-0.117	-0.345	.491*	-.469*	-0.134	.833**	-.830**	.572**	.434*	-.434*	0.374	0.201
SRTP	.927**	.892**	.876**	.762**	-0.054	.879**	.640**	.870**	.623**	.724**	-0.146	-0.137	0.357	-0.273	-.717**	.724**	.922**
SRTZ	.919**	.878**	.899**	.736**	-0.103	.848**	.622**	.898**	.587**	.728**	-0.057	-0.188	0.385	-0.269	-.758**	.701**	.925**
TDB	-.733**	-.649**	-.843**	-0.222	.627**	-.645**	-0.308	-.850**	-0.25	-0.231	-0.35	.659**	-.858**	-0.354	.544**	-.890**	-.752**
TDM	-0.19	-0.275	0.252	-.549**	-.831**	-0.383	-.428*	0.312	-.587**	-0.255	.913**	-.816**	.443*	.461*	-0.357	0.106	-0.019
TDP	.523**	.544**	0.193	.913**	.803**	.611**	.727**	0.179	.791**	.806**	-.769**	.769**	-.494*	-.819**	-0.262	-0.043	.420*
TDS	.872**	.822**	.723**	.757**	0.05	.923**	.836**	.715**	.815**	.615**	-0.315	0.024	0.367	-0.178	-.489*	.623**	.820**
TDZ	.951**	.870**	.787**	.858**	0.124	.958**	.885**	.791**	.863**	.768**	-0.305	0.077	0.276	-0.349	-.642**	.600**	.899**
TH	0.24	0.217	0.078	.684**	.723**	0.321	.454*	0.091	.500*	.582**	-.581**	.699**	-.732**	-.918**	-0.369	-0.322	0.311
TRNS	-0.365	-0.298	-.642**	0.199	.880**	-0.196	0.073	-.653**	0.208	0.065	-.673**	.925**	-.891**	-.601**	.405*	-.692**	-.420*
TS	.708**	.593**	.729**	0.35	-.436*	.715**	.540**	.736**	.461*	0.283	0.091	-.434*	.751**	0.293	-0.389	.768**	.714**
TSS	0.182	0.037	.407*	-0.317	-.846**	0.131	-0.075	.427*	-0.191	-0.262	.557**	-.809**	.890**	.749**	-0.087	.601**	0.257
WC	-.895**	-.836**	-.708**	-.895**	-0.226	-.933**	-.765**	-.693**	-.804**	-.718**	.426*	-0.184	-0.139	.491*	.573**	-.476*	-.867**
WT	.768**	.629**	.881**	.603**	-0.201	.752**	.518**	.836**	.511*	.526**	0.035	-0.21	0.38	-0.207	-.707**	.622**	.848**

** Correlation is significant at the 0.01 level 2-tailed

* Correlation is significant at the 0.05 level 2-tailed

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Annexture: Vb Pearson Correlation between Biotic and Abiotic parameters of YLB at Yashwant Lake during Dec. 2006 to Nov. 2008

	PO_4	ROTI	SRB	SRM	SRTP	SRTZ	TDB	TDM	TDP	TDS	TDZ	TH	TRNS	TS	TSS	WC	WT
ACI																	
ALK																	
AT																	
BACIL																	
CHLOR																	
CL																	
CLADO																	
CO_2																	
COPE																	
DIANO																	
EUGL																	
MYXO																	
NO_2																	
NO_3																	
DO																	
OSTRA																	
PH																	
PO_4	1																
ROTI	.622**	1															
SRB	-.926**	-.716**	1														
SRM	.586**	0.099	-0.385	1													
SRTP	.625**	.936**	-.683**	0.186	1												
SRTZ	.652**	.944**	-.683**	0.279	.960**	1											
TDB	-.953**	-.722**	.944**	-.569**	-.747**	-.758**	1										
TDM	0.384	-0.127	-0.171	.870**	-0.087	-0.002	-0.341	1									
TDP	-0.269	.522**	0.119	-.591**	.482*	.449*	0.154	-.719**	1								
TDS	.554**	.885**	-.681**	-0.136	.828**	.775**	-.640**	-0.309	.517**	1							
TDZ	.515*	.961**	-.622**	-0.083	.889**	.881**	-.623**	-0.279	.635**	.934**	1						
TH	-.481*	0.325	0.353	-.511*	0.253	0.223	0.361	-.482*	.809**	0.242	0.375	1					
TRNS	-.883**	-0.358	.761**	-.801**	-.421*	-.451*	.849**	-.694**	.549**	-0.254	-0.211	.631**	1				
TS	.841**	.734**	-.890**	0.18	.671**	.641**	-.843**	0.063	0.016	.844**	.716**	-0.213	-.626**	1			
TSS	.818**	0.212	-.748**	.493*	0.17	0.183	-.713**	.499*	-.618**	0.266	0.118	-.686**	-.806**	.742**	1		
WC	-0.399	-.922**	.570**	0.173	-.828**	-.814**	.504*	.429*	-.693**	-.848**	-.926**	-.461*	0.077	-.592**	-0.005	1	
WT	.663**	.855**	-.666**	0.229	.796**	.786**	-.698**	0.034	0.313	.714**	.782**	0.207	-0.383	.670**	0.31	-.735**	1

** Correlation is significant at the 0.01 level 2-tailed

* Correlation is significant at the 0.05 level 2-tailed

Annexture: Vc Pearson Correlation between Biotic and Abiotic parameters of YLC at Yashwant Lake during Dec. 2006 to Nov. 2008

	ACI	ALK	AT	BACIL	CHOLOR	CL	CLADO	CO_2	COPE	DINO	DO	EUGLE	MYXO	NO_2	NO_3	OSTRA	PH
ACI	1																
ALK	.944**	1															
AT	.848**	.779**	1														
BACIL	.918**	.874**	.786**	1													
CHOLOR	.465*	.489*	0.071	.491*	1												
CL	.950**	.910**	.790**	.956**	.570**	1											
CLADO	.909**	.867**	.750**	.837**	.526**	.904**	1										
CO_2	.827**	.740**	.969**	.750**	0.018	.736**	.707**	1									
COPE	.722**	.599**	.508*	.653**	.510*	.730**	.748**	.440*	1								
DINO	.742**	.691**	.806**	.853**	0.069	.731**	.596**	.788**	.427*	1							
DO	-.630**	-.571**	-.769**	-.554**	-0.106	-.514*	-.474*	-.849**	-0.264	-.603**	1						
EUGLE	-.729**	-.731**	-0.395	-.662**	-.678**	-.755**	-.785**	-0.329	-.775**	-0.307	0.198	1					
MYXO	0.334	0.356	-0.047	0.33	.936**	.462*	0.393	-0.111	.457*	-0.103	0.047	-.592**	1				
NO_2	0.324	0.307	.525**	0.181	-.571**	0.206	0.309	.527**	0.15	.416*	-0.16	-0.021	-.577**	1			
NO_3	-0.253	-0.27	-0.096	-.405*	-.724**	-0.36	-0.225	-0.097	-0.104	-0.168	0.377	0.271	-.609**	.738**	1		
OSTRA	.604**	.611**	.475*	.452*	0.145	.552**	.552**	.414*	.440*	.406*	-0.08	-.454*	0.213	.558**	0.326	1	
PH	.919**	.869**	.915**	.904**	0.297	.883**	.792**	.908**	.557**	.842**	-.762**	-.531**	0.14	0.332	-0.272	.441*	1
PO_4	.607**	.622**	.759**	.520**	-0.198	.523**	.565**	.752**	0.113	.603**	-.469*	-0.234	-0.289	.726**	0.208	.508*	.667**
ROTI	.891**	.881**	.845**	.887**	0.345	.882**	.741**	.841**	.434*	.789**	-.684**	-.548**	0.226	0.294	-0.306	.508*	.936**
SRB	-.683**	-.650**	-.778**	-.634**	0.205	-.627**	-.609**	-.764**	-.436*	-.737**	0.392	0.34	0.285	-.831**	-0.384	-.603**	-.737**
SRM	0.146	0.069	.464*	0.01	-.589**	-0.032	0.006	.584**	-0.159	0.29	-.566**	0.392	-.620**	.560**	0.368	0.131	0.327
SRTP	.781**	.724**	.882**	.805**	-0.064	.718**	.606**	.889**	0.402	.942**	-.672**	-0.282	-0.217	.570**	-0.022	.441*	.882**
SRTZ	.641**	.614**	.841**	.637**	-0.291	.544**	.451*	.855**	0.219	.857**	-.635**	-0.107	-.433*	.687**	0.142	0.401	.779**
TDB	-.667**	-.639**	-.783**	-.537**	0.29	-.532**	-.581**	-.799**	-0.332	-.657**	.470*	0.27	0.375	-.875**	-.426*	-.620**	-.681**
TDM	-0.145	-0.21	0.228	-0.327	-.748**	-0.347	-0.223	0.348	-0.336	0.002	-0.394	.538**	-.745**	.538**	.484*	-0.082	0.004
TDP	.854**	.832**	.606**	.932**	.765**	.933**	.810**	.555**	.675**	.668**	-.448*	-.732**	.636**	-0.107	-.600**	.405*	.783**
TDS	.930**	.854**	.821**	.916**	0.382	.954**	.875**	.790**	.744**	.736**	-.516**	-.722**	0.287	0.379	-0.155	.580**	.888**
TDZ	.986**	.950**	.845**	.927**	.504*	.971**	.936**	.801**	.748**	.737**	-.597**	-.763**	0.384	0.304	-0.275	.613**	.911**
TH	0.377	0.347	0.181	.544**	.781**	.515**	0.352	0.182	0.338	0.271	-0.389	-.418*	.695**	-.657**	-.926**	-0.158	0.37
TRANS	-0.379	-0.346	-.658**	-0.191	.570**	-0.211	-0.303	-.669**	-0.134	-.433*	.413*	-0.021	.619**	-.919**	-.602**	-.427*	-.444*
TS	.726**	.622**	.807**	.650**	-0.14	.673**	.667**	.805**	.544**	.682**	-.428*	-0.397	-0.195	.781**	0.348	.620**	.747**
TSS	0.004	-0.08	0.292	-0.121	-.785**	-0.124	-0.026	0.333	-0.055	0.18	-0.034	0.291	-.744**	.880**	.852**	0.305	0.087
WC	-.881**	-.851**	-.743**	-.952**	-.559**	-.939**	-.799**	-.707**	-.594**	-.780**	.563**	.667**	-.428*	-0.094	.474*	-.464*	-.876**
WT	.885**	.819**	.904**	.909**	0.228	.885**	.769**	.876**	.555**	.867**	-.652**	-.555**	0.111	0.387	-0.201	.511*	.933**

** Correlation is significant at the 0.01 level 2-tailed

* Correlation is significant at the 0.05 level 2-tailed

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Annexture: Vc Pearson Correlation between Biotic and Abiotic parameters of YLC at Yashwant Lake during Dec. 2006 to Nov. 2008

	PO_4	ROTI	SRB	SRM	SRTP	SRTZ	TDB	TDM	TDP	TDS	TDZ	TH	TRANS	TS	TSS	WC	WT
ACI																	
ALK																	
AT																	
BACIL																	
CHOLOR																	
CL																	
CLADO																	
CO_2																	
COPE																	
DINO																	
DO																	
EUGLE																	
MYXO																	
NO_2																	
NO_3																	
OSTRA																	
PH																	
PO_4	1																
ROTI	.674**	1															
SRB	-.818**	-.682**	1														
SRM	.431*	0.211	-.443*	1													
SRTP	.720**	.819**	-.834**	.486*	1												
SRTZ	.757**	.716**	-.837**	.618**	.954**	1											
TDB	-.834**	-.645**	.920**	-.600**	-.823**	-.861**	1										
TDM	0.334	-0.08	-0.243	.861**	0.199	0.383	-.424*	1									
TDP	0.291	.795**	-0.375	-0.23	.570**	0.352	-0.264	-.549**	1								
TDS	.609**	.864**	-.769**	0.1	.766**	.625**	-.658**	-0.197	.820**	1							
TDZ	.597**	.879**	-.675**	0.081	.756**	.605**	-.634**	-0.209	.879**	.942**	1						
TH	-0.22	0.399	0.233	-0.36	0.111	-0.099	0.334	-.559**	.728**	0.36	.411*	1					
TRANS	-.729**	-0.357	.777**	-.728**	-.629**	-.773**	.876**	-.692**	0.103	-0.363	-0.34	.580**	1				
TS	.755**	.691**	-.953**	.452*	.792**	.774**	-.886**	0.24	.410*	.835**	.713**	-0.151	-.745**	1			
TSS	.502*	0.027	-.634**	.655**	0.341	.506*	-.670**	.703**	-.414*	0.103	-0.039	-.784**	-.833**	.633**	1		
WC	-.539**	-.889**	.570**	0.055	-.716**	-.537**	.441*	0.352	-.930**	-.897**	-.905**	-.605**	0.094	-.589**	0.205	1	
WT	.686**	.928**	-.772**	0.249	.881**	.768**	-.707**	-0.04	.762**	.904**	.888**	0.339	-.438*	.788**	0.14	-.885**	1

** Correlation is significant at the 0.01 level 2-tailed

* Correlation is significant at the 0.05 level 2-tailed