

## Appendix 1 – Regression Results

	1	2	3	4	5	6	7	8	9	10	11	12
R Square	0.5315	0.5276	0.7835	0.7830	0.7810	0.7793	0.7790	0.7763	0.7768	0.7784	0.7795	0.7764
Standard Error	4.6410	4.5192	3.1450	3.1059	3.0990	3.1011	3.1030	3.1214	3.1184	3.1069	3.0994	3.1211
Observations	158	158	158	158	158	158	158	158	158	158	158	158
F-Statistic	10.74	28.11	36.98	53.04	66.43	75.64	75.53	74.38	74.57	75.28	75.75	74.40
Significance F	6.01E-17	2.18E-22	1.76E-40	8.99E-44	2.61E-45	5.21E-46	5.69E-46	1.37E-45	1.19E-45	6.88E-46	4.80E-46	1.36E-45
Degrees of freedom	15	6	14	10	8	7	7	7	7	7	7	7
	13	14	15	16	17	18	19	20	21	22	23	24
R Square	0.7776	0.7878	0.7877	0.7869	0.7843	0.7753	0.7858	0.7798	0.7783	0.7764	0.7760	0.7696
Standard Error	3.1125	3.1218	3.1004	3.0958	3.1037	3.9703	3.3374	3.1455	3.3522	3.5472	3.5506	3.1420
Observations	158	155	155	155	155	84	130	139	133	118	118	161
F-Statistic	74.93	43.93	53.44	59.49	66.37	32.34	55.49	57.56	54.42	47.31	47.19	73.01
Significance F	8.99E-46	9.09E-42	1.72E-43	2.86E-44	7.98E-45	2.38E-21	6.53E-37	4.57E-39	5.71E-37	5.04E-32	5.59E-32	1.45E-45
Degrees of freedom	7	12	10	9	8	8	8	8	8	8	8	7
	25	26	27	28	29	30	31	32	33	34	35	36
R Square	0.7787	0.7695	0.7781	0.7837	0.7817	0.7793	0.7866	0.7911	0.7856	0.7816	0.7827	0.7957
Standard Error	3.0894	3.1428	3.0832	3.0545	3.0683	3.0851	3.0337	3.0015	2.9741	2.9762	2.9860	2.8954
Observations	161	161	161	161	161	161	161	161	168	170	169	169
F-Statistic	66.86	72.96	76.66	68.83	68.04	67.10	70.04	71.96	83.73	97.24	82.84	89.58
Significance F	6.24E-46	1.51E-45	8.28E-47	1.13E-46	2.23E-46	5.06E-46	4.04E-47	8.12E-48	3.22E-50	2.95E-51	4.34E-50	3.16E-52
Degrees of freedom	8	7	7	8	8	8	8	8	7	6	7	7
	37	38	39	40	41	42	43	44	45	46	47	48
R Square	0.7957	0.7959	0.8026	0.7958	0.7966	0.7993	0.8006	0.7231	0.7518	0.8174	0.7974	0.7963
Standard Error	2.9043	2.9033	3.2038	2.9033	2.8978	2.8785	2.2483	1.7079	1.8472	2.9595	2.9239	2.9002
Observations	169	169	130	169	169	168	167	163	163	169	165	169
F-Statistic	77.90	77.97	61.50	77.96	78.34	91.01	91.22	67.90	79.26	103.59	76.73	78.18
Significance F	3.09E-51	2.92E-51	4.95E-39	2.93E-51	2.17E-51	1.70E-52	2.17E-52	5.29E-41	7.73E-45	2.68E-56	3.68E-50	2.47E-51
Degrees of freedom	8	8	8	8	8	7	7	6	6	7	8	8
	49	50	51	52	53	54	55					
R Square	0.7966	0.7684	0.7957	0.7967	0.8006	0.7957	0.7982					
Standard Error	2.8982	3.0826	2.9042	2.8975	2.9325	2.9044	2.9092					
Observations	169	169	169	169	161	169	166					
F-Statistic	78.31	76.31	77.90	78.36	76.29	77.89	77.64					
Significance F	2.21E-51	6.98E-48	3.07E-51	2.13E-51	2.46E-49	3.11E-51	1.20E-50					
Degrees of freedom	8	7	8	8	8	8	8					

## Appendix 2 – Coefficients and Standard Errors

	1		2		3		4	
	Coef	S-error	Coef	S-error	Coef	S-error	Coef	S-error
Intercept	4.5628	6.0478	4.0441	3.5021	-0.4152	3.1134	0.3733	2.4580
Black M								
budgenpct					0.3489	2.8172		
chrstcatpct					3.3613	2.1490	2.7091	0.9345
chrsththpct					1.9801	2.4384	1.3020	1.4503
Concert Halls								
Conflict	-0.1121	0.2690						
CPI								
Democr	0.6188	0.2847	0.6373	0.2223	0.3832	0.1721	0.3672	0.1571
Diversity								
Female								
GDP cap AVG 3 preceeding	0.1415	0.0383	0.1549	0.0288	0.0690	0.0220	0.0701	0.0215
GDP cap AVG 5 preceeding								
GDP Growth								
GDP Growth Avg 5								
Gini								
Internet	2.5683	3.4211						
islmgenpct					0.8836	2.1445		
judgenpct					-0.2429	4.8115		
Latitude	0.1100	0.0342	0.1146	0.0277	0.0673	0.0247	0.0691	0.0229
Linguistic Diversity								
Literacy	-3.7754	2.9542	-3.1615	2.4496	-2.3966	1.8926	-2.4340	1.8101
LogGDP3								
Log Pop								
LogPopDen								
Lutheran								
Males 15-24 as % of males								
Males 15-24 as % of total pop								
Migrants								
Music Education								
No Relig					5.6777	3.0868	4.8469	2.1381
NoRelig1980								
Oil Export	0.1498	5.8354						
OilM	0.0437	3.3490						
PopDen	-0.5988	0.7427	-0.5381	0.4673	0.3605	0.4489	0.3170	0.4280
Population	-0.0013	0.0027						
Prot1980								
Prot2010					1.0121	2.6326		
Religious Diversity								
Religiousity								
Scandin					22.4473	1.9688	22.6608	1.7377
School Years								
Socialism								
SocMarx								
SocYears								
SocMarxYears								
SocCurr								
SocMarxCurr								
Sound M								
Trade	-0.1614	1.1843						
Urban	-0.8786	2.5282						
Water	-0.5986	1.8750						
Youth Pop	5.2765	17.9603						
Youth Unemp								
YouthMaleUnemploy								
YouthSexRatio	-0.0696	0.0333	-0.0680	0.0292	-0.0219	0.0210	-0.0220	0.0205

	5		6		7		8	
	Coef	S-error	Coef	S-error	Coef	S-error	Coef	S-error
Intercept	0.2930	2.4055	-0.3819	2.3271	-2.1028	1.2797	-3.4702	0.7757
Black M								
budgetpct								
chrstcatpct	2.3739	0.8853	2.1420	0.8602	2.4876	0.8811	2.2104	0.8663
chrsthorthpct								
Concert Halls								
Conflict								
CPI								
Democr	0.3791	0.1561	0.3509	0.1541	0.4306	0.1501	0.4020	0.1522
Diversity								
Female								
GDP cap AVG 3 preceeding	0.0701	0.0203	0.0688	0.0202	0.0590	0.0180	0.0535	0.0193
GDP cap AVG 5 preceeding								
GDP Growth								
GDP Growth Avg 5								
Gini								
Internet								
islmgenpct								
judgenpct								
Latitude	0.0712	0.0212	0.0632	0.0199	0.0729	0.0211	0.0653	0.0228
Linguistic Diversity								
Literacy	-1.9177	1.7487			-2.3203	1.7170		
LogGDP3								
Log Pop								
LogPopDen								
Lutheran								
Males 15-24 as % of males								
Males 15-24 as % of total pop								
Migrants								
Music Education								
No Relig	4.4252	2.0794	4.0106	2.0462	4.6550	2.0729	4.2389	2.0751
NoRelig1980								
Oil Export								
OilM								
PopDen								
Population								
Prot1980								
Prot2010								
Religious Diversity								
Religiosity								
Scandin	22.2304	1.6930	22.3308	1.6917	22.5485	1.6734	22.7108	1.6886
School Years								
Socialism							-0.1258	0.6757
SocMarx								
SocYears								
SocMarxYears								
SocCurr								
SocMarxCurr								
Sound M								
Trade								
Urban								
Water								
Youth Pop								
Youth Unemp								
YouthMaleUnemploy								
YouthSexRatio	-0.0238	0.0203	-0.0282	0.0199				























	49		50		51		52	
	Coef	S-error	Coef	S-error	Coef	S-error	Coef	S-error
Intercept	5.8717	2.0117	6.0622	2.1393	5.9913	2.5579	5.2138	2.1030
Black M								
budgetpct								
chrstcatpct	2.1205	0.7282	1.9879	0.7740	2.0927	0.7305	2.0708	0.7283
chrsthorthpct								
Concert Halls	1.0920	0.3448	1.3413	0.3624	1.1080	0.3450	1.0405	0.3529
Conflict								
CPI								
Democr								
Diversity								
Female								
GDP cap AVG 3 preceeding							0.0168	0.0192
GDP cap AVG 5 preceeding								
GDP Growth								
GDP Growth Avg 5								
Gini								
Internet								
islmgenpct								
judgenpct								
Latitude	0.0698	0.0209	0.0749	0.0222	0.0713	0.0211	0.0643	0.0222
Linguistic Diversity								
Literacy								
LogGDP3								
Log Pop								
LogPopDen								
Lutheran	3.9732	4.7949	24.2697	2.2281				
Males 15-24 as % of males								
Males 15-24 as % of total pop	-73.8612	18.1376	-78.3080	19.2656	-72.3596	18.1115	-66.9331	19.1330
Migrants								
Music Education								
No Relig	3.6179	2.0648	2.0178	2.1663	3.8357	2.0524	3.6804	2.0553
NoRelig1980								
Oil Export								
OilM								
PopDen								
Population								
Prot1980								
Prot2010								
Religious Diversity								
Religiosity								
Scandin	18.4727	3.9256			21.3856	1.7209	21.2674	1.7211
School Years								
Socialism								
SocMarx								
SocYears								
SocMarxYears	-0.0340	0.0124	-0.0342	0.0132	-0.0349	0.0124	-0.0292	0.0139
SocCurr								
SocMarxCurr								
Sound M								
Trade								
Urban								
Water								
Youth Pop								
Youth Unemp								
YouthMaleUnemploy								
YouthSexRatio					-0.0024	0.0162		

	53		54		55	
	Coef	S-error	Coef	S-error	Coef	S-error
Intercept	5.0311	2.5710	5.7527	2.2735	6.5573	2.4699
Black M						
budgetpct						
chrstcatpct	2.1131	0.8040	2.0980	0.7364	2.3148	0.7731
chrsthorthpct						
Concert Halls	1.0441	0.3518	1.1087	0.3489	1.1732	0.3492
Conflict						
CPI						
Democr	0.0984	0.1596				
Diversity						
Female						
GDP cap AVG 3 preceeding						
GDP cap AVG 5 preceeding						
GDP Growth						
GDP Growth Avg 5						
Gini						
Internet			0.0120	1.2750		
islmgenpct						
judgenpct						
Latitude	0.0665	0.0226	0.0708	0.0227	0.0789	0.0218
Linguistic Diversity						
Literacy					-0.9936	1.5496
LogGDP3						
Log Pop						
LogPopDen						
Lutheran						
Males 15-24 as % of males						
Males 15-24 as % of total pop	-68.8988	20.6390	-72.3798	20.2558	-74.6198	18.6373
Migrants						
Music Education						
No Relig	4.0681	2.0854	3.8337	2.0586	3.6937	2.0695
NoRelig1980						
Oil Export						
OilM						
PopDen						
Population						
Prot1980						
Prot2010						
Religious Diversity						
Religiosity						
Scandin	21.4042	1.7540	21.3985	1.7187	21.0429	1.7431
School Years						
Socialism						
SocMarx						
SocYears						
SocMarxYears	-0.0328	0.0134	-0.0347	0.0129	-0.0353	0.0127
SocCurr						
SocMarxCurr						
Sound M						
Trade						
Urban						
Water						
Youth Pop						
Youth Unemp						
YouthMaleUnemploy						
YouthSexRatio						

## Appendix 3 – T-scores and p-values

	1		2		3		4	
	T-score	p-value	T-score	p-value	T-score	p-value	T-score	p-value
Intercept	0.75	0.4518	1.15	0.2500	-0.13	0.8941	0.15	0.8795
Black M								
budgenpct					0.12	0.9016		
chrstatpct					1.56	0.1200	2.90	0.0043
chrstorthpct					0.81	0.4181	0.90	0.3708
Concert Halls								
Conflict	-0.42	0.6774						
CPI								
Democr	2.17	0.0314	2.87	0.0047	2.23	0.0275	2.34	0.0207
Diversity								
Female								
GDP cap AVG 3 preceeding	3.69	0.0003	5.38	0.0000	3.13	0.0021	3.26	0.0014
GDP cap AVG 5 preceeding								
GDP Growth								
GDP Growth Avg 5								
Gini								
Internet	0.75	0.4541						
islmgenpct					0.41	0.6809		
judgenpct					-0.05	0.9598		
Latitude	3.22	0.0016	4.13	0.0001	2.72	0.0073	3.02	0.0030
Linguistic Diversity								
Literacy	-1.28	0.2033	-1.29	0.1988	-1.27	0.2075	-1.34	0.1808
LogGDP3								
Log Pop								
LogPopDen								
Lutheran								
Males 15-24 as % of males								
Males 15-24 as % of total pop								
Migrants								
Music Education								
No Relig					1.84	0.0679	2.27	0.0249
NoRelig1980								
Oil Export	0.03	0.9796						
OilM	0.01	0.9896						
PopDen	-0.81	0.4214	-1.15	0.2514	0.80	0.4232	0.74	0.4601
Population	-0.49	0.6258						
Prot1980								
Prot2010					0.38	0.7012		
Religious Diversity								
Religiousity								
Scandin					11.40	0.0000	13.04	0.0000
School Years								
Socialism								
SocMarx								
SocYears								
SocMarxYears								
SocCurr								
SocMarxCurr								
Sound M								
Trade	-0.14	0.8918						
Urban	-0.35	0.7287						
Water	-0.32	0.7500						
Youth Pop	0.29	0.7694						
Youth Unemp								
YouthMaleUnemploy								
YouthSexRatio	-2.09	0.0384	-2.33	0.0213	-1.04	0.2995	-1.07	0.2854



	5		6		7		8	
	T-score	p-value	T-score	p-value	T-score	p-value	T-score	p-value
Intercept	0.12	0.9032	-0.16	0.8699	-1.64	0.1024	-4.47	0.0000
Black M								
budgetpct								
chrstcatpct	2.68	0.0082	2.49	0.0139	2.82	0.0054	2.55	0.0117
chrstorthpct								
Concert Halls								
Conflict								
CPI								
Democr	2.43	0.0164	2.28	0.0242	2.87	0.0047	2.64	0.0091
Diversity								
Female								
GDP cap AVG 3 preceeding	3.46	0.0007	3.40	0.0009	3.29	0.0013	2.77	0.0063
GDP cap AVG 5 preceeding								
GDP Growth								
GDP Growth Avg 5								
Gini								
Internet								
islmgenpct								
judgenpct								
Latitude	3.36	0.0010	3.18	0.0018	3.45	0.0007	2.86	0.0048
Linguistic Diversity								
Literacy	-1.10	0.2746			-1.35	0.1786		
LogGDP3								
Log Pop								
LogPopDen								
Lutheran								
Males 15-24 as % of males								
Males 15-24 as % of total pop								
Migrants								
Music Education								
No Relig	2.13	0.0350	1.96	0.0518	2.25	0.0262	2.04	0.0428
NoRelig1980								
Oil Export								
OilM								
PopDen								
Population								
Prot1980								
Prot2010								
Religious Diversity								
Religiosity								
Scandin	13.13	0.0000	13.20	0.0000	13.47	0.0000	13.45	0.0000
School Years								
Socialism							-0.19	0.8526
SocMarx								
SocYears								
SocMarxYears								
SocCurr								
SocMarxCurr								
Sound M								
Trade								
Urban								
Water								
Youth Pop								
Youth Unemp								
YouthMaleUnemploy								
YouthSexRatio	-1.18	0.2416	-1.42	0.1586				























	49		50		51		52	
	T-score	p-value	T-score	p-value	T-score	p-value	T-score	p-value
Intercept	2.92	0.0040	2.83	0.0052	2.34	0.0204	2.48	0.0142
Black M								
budgetpct								
chrstcatpct	2.91	0.0041	2.57	0.0111	2.86	0.0047	2.84	0.0050
chrsthorthpct								
Concert Halls	3.17	0.0018	3.70	0.0003	3.21	0.0016	2.95	0.0037
Conflict								
CPI								
Democr								
Diversity								
Female								
GDP cap AVG 3 preceeding							0.87	0.3836
GDP cap AVG 5 preceeding								
GDP Growth								
GDP Growth Avg 5								
Gini								
Internet								
islmgenpct								
judgenpct								
Latitude	3.34	0.0010	3.38	0.0009	3.38	0.0009	2.90	0.0043
Linguistic Diversity								
Literacy								
LogGDP3								
Log Pop								
LogPopDen								
Lutheran	0.83	0.4086	10.89	0.0000				
Males 15-24 as % of males								
Males 15-24 as % of total pop	-4.07	0.0001	-4.06	0.0001	-4.00	0.0001	-3.50	0.0006
Migrants								
Music Education								
No Relig	1.75	0.0817	0.93	0.3530	1.87	0.0635	1.79	0.0752
NoRelig1980								
Oil Export								
OilM								
PopDen								
Population								
Prot1980								
Prot2010								
Religious Diversity								
Religiosity								
Scandin	4.71	0.0000			12.43	0.0000	12.36	0.0000
School Years								
Socialism								
SocMarx								
SocYears								
SocMarxYears	-2.74	0.0068	-2.60	0.0102	-2.81	0.0056	-2.10	0.0372
SocCurr								
SocMarxCurr								
Sound M								
Trade								
Urban								
Water								
Youth Pop								
Youth Unemp								
YouthMaleUnemploy								
YouthSexRatio					-0.14	0.8851		

	53		54		55	
	T-score	p-value	T-score	p-value	T-score	p-value
Intercept	1.96	0.0522	2.53	0.0124	2.65	0.0088
Black M						
budgetpct						
chrstcatpct	2.63	0.0095	2.85	0.0050	2.99	0.0032
chrsthorthpct						
Concert Halls	2.97	0.0035	3.18	0.0018	3.36	0.0010
Conflict						
CPI						
Democr	0.62	0.5385				
Diversity						
Female						
GDP cap AVG 3 preceeding						
GDP cap AVG 5 preceeding						
GDP Growth						
GDP Growth Avg 5						
Gini						
Internet			0.01	0.9925		
islmgenpct						
judgenpct						
Latitude	2.95	0.0037	3.11	0.0022	3.61	0.0004
Linguistic Diversity						
Literacy					-0.64	0.5223
LogGDP3						
Log Pop						
LogPopDen						
Lutheran						
Males 15-24 as % of males						
Males 15-24 as % of total pop	-3.34	0.0011	-3.57	0.0005	-4.00	0.0001
Migrants						
Music Education						
No Relig	1.95	0.0529	1.86	0.0644	1.78	0.0762
NoRelig1980						
Oil Export						
OilM						
PopDen						
Population						
Prot1980						
Prot2010						
Religious Diversity						
Religiosity						
Scandin	12.20	0.0000	12.45	0.0000	12.07	0.0000
School Years						
Socialism						
SocMarx						
SocYears						
SocMarxYears	-2.44	0.0156	-2.70	0.0078	-2.78	0.0060
SocCurr						
SocMarxCurr						
Sound M						
Trade						
Urban						
Water						
Youth Pop						
Youth Unemp						
YouthMaleUnemploy						
YouthSexRatio						

## Appendix 4 – Variable Explanations and Results of Testing

<b>Variable</b>	<b>Description</b>	<b>Test Results</b>
Black M	The dollar value of the black market as measured by Havocscope for 2012 divided by the GDP for 2012 as measured by the International Monetary Fund	Not related to metal.
budgenpct	The percentage of the population that is Buddhist in 2010 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.	Not related to metal.
chrstcatpct	The percentage of the population that is Catholic in 2010 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.	Positive relationship to metal.
chrstorthpct	The percentage of the population that is Orthodox in 2010 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.	Not related to metal.
Concert Halls	The number of concert halls per 1 million people. It is calculated by dividing the number of concert halls in 2012 per Wikipedia by the population per the World Bank for 2012. The number of concert halls is data original to Wikipedia.	Positive relationship to metal.
Conflict	The conflict intensity of most intense conflict in the country in 2012 as measured by the Heidelberg Institute for International Conflict Research.	Not related to metal.
CPI	The Corruption Perception Index as measured by Transparency international. The CPI is based on the opinions of experts expressed in a survey on the level of corruption of the country. Transparency defines corruption as "The abuse of public power for private gain."	Not related to metal.
Democr	The Economist Intelligence Unit's Index of Democracy as measured in 2012. It is a composite index, and each component of the index is based upon survey questions. The components of the index are: Electoral Process and Pluralism, Functioning of Government, Political Participation, Political Culture, and Civil Liberties.	Not related to metal.

Diversity	This is the ethnic fractionalization as measured by Alesina in 2003. It is the probability that if one person is randomly selected from a population that the next person randomly selected will be of a different ethnicity.	Not related to metal.
Female	This is the percentage of females aged 15 or older that are in the workforce, as measured by the World Bank in 2011.	Not related to metal.
GDP cap AVG 3 preceding	The average of the Gross Domestic Product per Capita for the three preceding years. The years used were 2009-2011 as measured by the World Bank.	If there is a relationship to metal, it is too weak to meet the criteria of this test.
GDP cap AVG 5 preceding	The average of the Gross Domestic Product per Capita for the five preceding years. The years used were 2007-2011 as measured by the World Bank.	If there is a relationship to metal, it is too weak to meet the criteria of this test. It is weaker than "GDP cap AVG 3 preceding" and so it would not receive further consideration in the model.
GDP Growth	This is the growth in the Gross Domestic Product for the most recent year available beginning with 2012 as measured by the World Bank.	Not related to metal.
GDP Growth Avg 5	This is the average growth in the Gross Domestic Product for the years 2008-2012 as measured by the World Bank.	Not related to metal.

Gini

The Gini index measures the degree of inequality in the distribution of family income in a country. If the income were distributed with perfect equality the index would be zero, if the income were distributed with perfect inequality the index would be 100. As reported by the Central Intelligence Agency.

If there is a relationship with metal it is very weak, and does not meet the criteria of this test. It was only included in one regression, number 39, and it appeared that it might have a very weak negative relationship with metal; in other words, the greater the income inequality the less metal that is produced. However, the number of countries for which a Gini Coefficient is available is smaller than most variables in the study, and the countries for which a Gini Coefficient is not available, tend to be less developed countries. A larger sample, without a bias toward developed countries might produce test results that indicate a significant relationship between income inequality and metal. With perfect income inequality the impact of this variable would only be to decrease the number of metal bands per 100,000 by 5; perfect income inequality does not occur, the highest level in the data is 63.2 out of 100.

Internet

The percentage of the country that has internet access as reported by the International Telecommunications Union (Geneva).

Not related to metal.

islmpct

The percentage of the population that is Muslim in 2010 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.

Not related to metal.



judgenpct	The percentage of the population that is Jewish in 2010 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.	Not related to metal.
Latitude	This is the absolute value of latitude of the center point of the country expressed in degrees. It is as reported by the Central Intelligence Agency based on data maintained by the National Geospatial-Intelligence Agency.	Positive relationship to metal.
Linguistic Diversity	This is the linguistic fractionalization as measured by Alesina in 2003. It is the probability that if one person is randomly selected from a population that the next person randomly selected will have a different first language.	Not related to metal.
Literacy	The percentage of the adult population that can read and write. Generally adult is defined as age 15 or older. The data is as reported the Central Intelligence Agency.	Not related to metal.
LogGDP3	The natural logarithm of the average of the Gross Domestic Product per Capita for the three preceding years. The years used were 2009-2011 as measured by the World Bank.	Not related to metal.
Log Pop	The natural logarithm of the population in 2012 as measured by the World Bank.	Not related to metal.
LogPopDen	The natural logarithm of the population per square kilometer in 2011 as reported by The World Bank.	Not related to metal.
Lutheran	The percentage of the population that are members of the Lutheran church. The number of Lutherans in the country as reported by the World Lutheran Federation, and the population in 2012 as reported by the World Bank was used as the denominator to arrive at the percentage.	Not related to metal. It appeared to be significant in regression 50 which did not include Scandinavian Legal History as a variable. Regression 49 has both Lutheran and Scandinavian Legal History, and in that regression Lutheran was not significant and Scandinavian Legal History was significant.

Males 15-24 as % of males	The percentage of the males that are between the ages of 15 and 24. It is calculated by dividing the male population between the ages of 15 and 24 by the total male population, as reported by the US Census Bureau in its International Database.	This variable did test as having a significant relationship to metal, but "Males 15-24 as % of total pop" had a stronger relationship, so it was used instead.
Males 15-24 as % of total pop	The percentage of the population that is male and between the ages of 15 and 24. It is calculated by dividing the male population between the ages of 15 and 24 by the total population, as reported by the US Census Bureau in its International Database.	Negative relationship to metal.
Metal	The number of metal bands per 100,000 people. The number of metal bands was obtained from Encyclopedia Metallum, and the population was obtained from the CIA World Factbook.	N/A. This is the dependent variable.
Migrants	The percentage of the population that originate from another country as reported by the United Nations Department of Economic and Social Affairs.	Not related to metal.
Music Education	The number of university level music programs per 100,000 people. The number of music programs as reported by Wikipedia was divided by the total population in 2012 as reported by the World Bank. The list of university level music programs originated with Wikipedia.	Not related to metal.
No Relig	The percentage of the population that profess no religion in 2010 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.	Positive relationship to metal.
NoRelig1980	The percentage of the population that profess no religion in 1980 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.	Not related to metal.
Oil Export	The number of barrels of oil exported per person. The number of barrels is as reported by the Central Intelligence Agency's World Factbook for the most recent year in which data was available during the period 2009-2011. The population figures used to calculate this ratio are for 2012 as reported by the World Bank.	Not related to metal.

OilM	The percentage of the GDP that is due to oil and mineral exports in 2011 as reported by the World Bank. The dollar value of the oil and mineral exports used to calculate the percentage is net of production costs.	Not related to metal.
PopDen	The population per square kilometer in 2011 as reported by The World Bank.	Not related to metal.
Population	The population in millions of people in 2012 as reported by the World Bank.	Not related to metal.
Prot1980	The percentage of the population that is Protestant, including Anglicans, in 1980 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.	Not related to metal.
Prot2010	The percentage of the population that is Protestant, including Anglicans, in 2010 as measured by Zeev Maoz and Errol A. Henderson in The World Religion Dataset.	Not related to metal.
Religious Diversity	This is the religious fractionalization as measured by Alesina in 2003. It is the probability that if one person is randomly selected from a population that the next person randomly selected will be of a different religion.	Not related to metal.
Religiosity	The percentage of the population who say that religion is important in their daily life according to the Gallup Worldview in 2009, as reported by Wikipedia.	Not related to metal.
Scandin	Dummy variable for countries that have a Scandinavian Legal origin, as reported by Ulf Bernitz of the Stockholm Institute for Scandinavian Law.	Positive relationship to metal.
School Years	The number of years of schooling that a child can expect to receive as reported by the Central Intelligence Agency.	Not related to metal.
Socialism	A dummy variable for whether the country has ever had a socialist legal system. This includes socialist legal systems based on Marxism and those that are not based on Marxism. The list was compiled by Wikipedia, using the constitutions of socialist countries as the basis for the list.	Not related to metal.

SocMarx	A dummy variable for whether the country has ever had a socialist legal system that is based on Marxism. The list was compiled by Wikipedia, using the constitutions of socialist countries as the basis for the list.	Relationship to metal is too weak to meet the criteria of this test. Another measure, SocMarxYears is significant, and will be used instead.
SocYears	The number of years that the country has had a socialist legal system; including both Marxism based on non-Marxist legal systems. This includes countries that no longer have a socialist legal system. The list was compiled by Wikipedia, using the constitutions of socialist countries as the basis for the list.	Relationship to metal is too weak to meet the criteria of this test. Another measure, SocMarxYears is significant, and will be used instead.
SocMarxYears	The number of years that the country has had a Marxist legal system. This includes countries that are no longer Marxist. The list was compiled by Wikipedia, using the constitutions of socialist countries as the basis for the list.	Negative relationship to metal.
SocCurr	A dummy variable for whether the country currently has a socialist legal system, including both Marxist and non-Marxist socialism. The list was compiled by Wikipedia, using the constitutions of socialist countries as the basis for the list.	Not related to metal.
SocMarxCurr	A dummy variable for whether the country currently has a socialist legal system based on Marxism. The list was compiled by Wikipedia, using the constitutions of socialist countries as the basis for the list.	Relationship to metal is too weak to meet the criteria of this test. Another measure, SocMarxYears is significant, and will be used instead.
Sound M	The soundness of the currency in 2012 as measured by the Gwartney, Lawson, and Hall of the Frasier Institute. It is a measure of how well the country's money holds its value and of the ability of citizens to obtain foreign currency and hold foreign bank accounts.	Not related to metal.
Trade	Merchandise trade as a share of Gross Domestic Product in 2012 as reported by the World Bank.	Not related to metal.
Urban	The percentage of the population residing in urban areas in 2010 as reported by the United Nations Department of Economic and Social Affairs.	Not related to metal.

Water	The percentage of the population that had access to improved drinking water in 2008 as reported by the Pacific Institute.	Not related to metal.
Youth Pop	The percentage of the population that was between the ages of 15 and 24 in 2012 as reported by the US Census Bureau in its International Data Base.	Not related to metal.
Youth Unemp	The percentage of the labor force between the ages of 15 and 24 that was unemployed, as reported by the Central Intelligence Agency. The year used was the most recent year for which data was available, which was usually 2011.	Not related to metal.
YouthMaleUnemploy	The percentage of the labor force that is male and between the ages of 15 and 24 that was unemployed, as reported by the Central Intelligence Agency. The year used was the most recent year for which data was available, which was usually 2011.	Not related to metal.
YouthSexRatio	This is the male population between the ages of 15 and 24 in 2012 divided by the female population between the ages of 15 and 24 in 2012 and multiplied by 100. It is as reported by the US Census Bureau in its International Data Base.	Not related to metal.

## Appendix 5 – Variable Bibliography

Variable Abbreviation	Primary References	Secondary References
Black M	Havoc Scope (2013) <i>Global Black Market Information</i> . [online] Available at: < <a href="http://www.havocscope.com/countries/ranking/">http://www.havocscope.com/countries/ranking/</a> >., Havoc Scope. [Accessed 28 June 2013].	
budgenpct	Maoz, Zeev and Errol A. Henderson (2013) “The World Religion Dataset, 1945-2010: Logic, Estimates, and Trends” <i>International Interactions</i> , 39(3). [online] Available at: <a href="http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp">http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp</a> . [Accessed 10 June 2013].	
chrstcatpct	Maoz, Zeev and Errol A. Henderson (2013) “The World Religion Dataset, 1945-2010: Logic, Estimates, and Trends” <i>International Interactions</i> , 39(3). [online] Available at: <a href="http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp">http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp</a> . [Accessed 10 June 2013].	
chrstorthpct	Maoz, Zeev and Errol A. Henderson (2013) “The World Religion Dataset, 1945-2010: Logic, Estimates, and Trends” <i>International Interactions</i> , 39(3). [online] Available at: <a href="http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp">http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp</a> . [Accessed 10 June 2013].	
Concert Halls	Wikipedia (2013) <i>List of Concert Halls</i> . [online] Available at:	World Bank (2013), “Population (Total),” <i>World Development Indicators</i> World

	<p>&lt;<a href="http://en.wikipedia.org/wiki/List_of_concert_halls">http://en.wikipedia.org/wiki/List_of_concert_halls</a>&gt;. [Accessed 5 November 2013].</p>	<p>Bank Washington DC. [online] Available at: &lt;<a href="http://data.worldbank.org/indicator/SP.OP.TOTL">http://data.worldbank.org/indicator/SP.OP.TOTL</a>&gt;. [Accessed 16 January 2014].</p>
Conflict	<p>Ellerbrock, Simon, Fiona Byrne, Lars Dittrich, Peter Hachemer, Elza Martinez, and Imran Syed (2013) <i>Conflict Barometer 2012</i>, Heidelberg Institute for International Conflict Research: Heidelberg. [online] Available at: &lt;<a href="http://hiik.de/en/konfliktbarometer/index.html">http://hiik.de/en/konfliktbarometer/index.html</a>&gt;. [Accessed 11 June 2013].</p>	
CPI	<p>Transparency International, (2012) <i>Corruption Perceptions Index 2012</i>. [online] Berlin: Transparency International. Available at: &lt;<a href="http://www.transparency.org/cpi2012/results">http://www.transparency.org/cpi2012/results</a>&gt;. [Accessed on 15 May 2013].</p>	
Democr	<p>Kekic Laza, (2012) <i>The Economist Intelligence Unit's Index of Democracy: Democracy At A Standstill</i>. Economist Intelligence Unit: Washington DC. [online] Available at: &lt;<a href="https://portoncv.gov.cv/dhub/porton.por_global.open_file?p_doc_id=1034">https://portoncv.gov.cv/dhub/porton.por_global.open_file?p_doc_id=1034</a>&gt;. [Accessed 19 July 2013].</p>	
Diversity	<p>Alesina Alberto, (2003) "Fractionalization" <i>Journal of Economic Growth</i> 8: 155–194.</p>	
Female	<p>World Bank, (2011) "Labor participation rate, female (% of female population ages 15+)," <i>World Development Indicators: Labor force structure</i>. World Bank: Washington DC. [online] Available at: &lt;<a href="http://data.worldbank.org/indicator/SL.TLF.CACT.FE.ZS">http://data.worldbank.org/indicator/SL.TLF.CACT.FE.ZS</a>&gt;. [Accessed 4 June 2013].</p>	
GDP cap AVG 3 preceding	<p>World Bank (2013) "GDP Per Capita," <i>World Development Indicators</i>, World Bank: Washington DC [online] Available at: &lt;<a href="http://data.worldbank.org/indicator/NY.GDP.PCAP.CD?page=1">http://data.worldbank.org/indicator/NY.GDP.PCAP.CD?page=1</a>&gt;. [Accessed 25 June 2013].</p>	

GDP cap AVG 5 preceding	World Bank (2013) "GDP Per Capita," <i>World Development Indicators</i> , World Bank: Washington DC [online] Available at: <a href="http://data.worldbank.org/indicator/NY.GDP.PCAP.CD?page=1">http://data.worldbank.org/indicator/NY.GDP.PCAP.CD?page=1</a> . [Accessed 25 June 2013].
GDP Growth	World Bank (2013) "GDP Growth" <i>World Development Indicators</i> World Bank Washington DC. [online] Available at: <a href="http://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG/countries?display=default">http://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG/countries?display=default</a> . [Accessed 13 July 2013].
GDP Growth Avg 5	World Bank (2013) "GDP Growth" <i>World Development Indicators</i> World Bank Washington DC. [online] Available at: <a href="http://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG/countries?display=default">http://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG/countries?display=default</a> . [Accessed 13 July 2013].
Gini	Central Intelligence Agency (2013) "Distribution of Family Income - Gini Index," <i>CIA World Factbook</i> CIA Washington DC [online] Available at: <a href="https://www.cia.gov/library/publications/the-world-factbook/rankorder/2172rank.html">https://www.cia.gov/library/publications/the-world-factbook/rankorder/2172rank.html</a> . [Accessed 7 July 2013].
Internet	International Telecommunications Union (2013) "Percentage of Individuals using the Internet 2000-2012" International Telecommunications Union: Geneva [online] Available at: <a href="http://en.wikipedia.org/wiki/List_of_countries_by_number_of_Internet_users">http://en.wikipedia.org/wiki/List_of_countries_by_number_of_Internet_users</a> . [Accessed 22 June 2013].
islmgenspct	Maoz, Zeev and Errol A. Henderson (2013) "The World Religion Dataset, 1945-2010: Logic, Estimates, and Trends" <i>International Interactions</i> , 39(3). [online] Available at:



judgenpct	<p>http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp. [Accessed 10 June 2013].</p> <p>Maoz, Zeev and Errol A. Henderson (2013) "The World Religion Dataset, 1945-2010: Logic, Estimates, and Trends" <i>International Interactions</i>, 39(3). [online] Available at: http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp. [Accessed 10 June 2013].</p>
Latitude	<p>Central Intelligence Agency (2013) "Geographic Coordinates," CIA World Factbook, CIA: Washington DC. [online] Available at: &lt;<a href="https://www.cia.gov/library/publications/the-world-factbook/fields/2011.html">https://www.cia.gov/library/publications/the-world-factbook/fields/2011.html</a>&gt;.</p>
Linguistic Diversity	<p>Alesina Alberto, (2003) "Fractionalization" <i>Journal of Economic Growth</i> 8: 155–194.</p>
Literacy	<p>Central Intelligence Agency (2013), Literacy, CIA World Factbook, CIA: Washington DC. [online] Available at: &lt;<a href="https://www.cia.gov/library/publications/the-world-factbook/fields/2103.html#136">https://www.cia.gov/library/publications/the-world-factbook/fields/2103.html#136</a>&gt;. [Accessed 5 Jan 2014].</p>
LogGDP3	<p>World Bank (2013) "GDP Per Capita," <i>World Development Indicators</i>, World Bank: Washington DC [online] Available at: &lt;<a href="http://data.worldbank.org/indicator/NY.GDP.PCAP.CD?page=1">http://data.worldbank.org/indicator/NY.GDP.PCAP.CD?page=1</a>&gt;. [Accessed 25 June 2013].</p>
Log Pop	<p>World Bank (2013), "Population (Total)," <i>World Development Indicators</i> World Bank Washington DC. [online] Available at: &lt;<a href="http://data.worldbank.org/indicator/SP.POP.TOTL">http://data.worldbank.org/indicator/SP.POP.TOTL</a>&gt;. [Accessed 16 January 2014].</p>
LogPopDen	<p>World Bank (2013), "Population density (people per sq. km of land area)," <i>World</i></p>

	<p><i>Development Indicators</i>, World Bank: Washington DC. [online] Available at:  <a href="http://data.worldbank.org/indicator/E.N.POP.DNST">http://data.worldbank.org/indicator/E.N.POP.DNST</a>. [Accessed 16 January 2014].</p>	
Lutheran	<p>World Lutheran Federation (2011) "2011 World Lutheran Membership Details," <i>Lutheran World Information</i>, Lutheran World Federation: Geneva. [online] Available at: <a href="http://www.rockrohr.net/wp-content/uploads/2012/12/LWF-Statistics-2011.pdf">http://www.rockrohr.net/wp-content/uploads/2012/12/LWF-Statistics-2011.pdf</a>. [Accessed 10 October 2013].</p>	<p>World Bank (2013), "Population (Total)," <i>World Development Indicators</i> World Bank Washington DC. [online] Available at: <a href="http://data.worldbank.org/indicator/SP.OP.TOTL">http://data.worldbank.org/indicator/SP.OP.TOTL</a>. [Accessed 16 January 2014].</p>
Males 15-24 as % of males	<p>United States Census Bureau (2012) International Data Base United States Census Bureau: Washington DC. [online] Available at: <a href="http://www.census.gov/population/international/data/idb/informationGateway.php">http://www.census.gov/population/international/data/idb/informationGateway.php</a>. [Accessed 2 September 2013].</p>	
Males 15-24 as % of total pop	<p>United States Census Bureau (2012) International Data Base United States Census Bureau: Washington DC. [online] Available at: <a href="http://www.census.gov/population/international/data/idb/informationGateway.php">http://www.census.gov/population/international/data/idb/informationGateway.php</a>. [Accessed 2 September 2013].</p>	
Metal	<p>Dempsey Caitlin (2012) <i>Interactive Map of Heavy Metal Bands By Country Per Capita</i>. [online] Available at: <a href="http://www.gislounge.com/map-of-heavy-metal-bands-by-country-per-capita/">http://www.gislounge.com/map-of-heavy-metal-bands-by-country-per-capita/</a>. [Accessed 14 May 2013].</p>	<p>Encyclopedia Metallum (2013), Browse Bands - By Country. [online] Available at: <a href="http://www.metal-archives.com/browse/country">http://www.metal-archives.com/browse/country</a>. [Accessed 23 February, 2012 by Reddit user depo_].</p> <p>Reddit user depo_ (2012), Map of countries by metal bands per capita. [online] Available at: <a href="http://www.reddit.com/r/Metal/comments/q2flb/map_of_countries_by_metal_bands_per_capita/c3u5fzo?context=3">http://www.reddit.com/r/Metal/comments/q2flb/map_of_countries_by_metal_bands_per_capita/c3u5fzo?context=3</a>.</p>

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Migrants	United Nations, Department of Economic and Social Affairs (2013) "Trends in International Migrant Stock: The 2013 revision," United Nations database, POP/DB/MIG/Stock/Rev.2013, United Nations: New York [online] Available at: < <a href="http://esa.un.org/unmigration/migrantstocks2013.htm?mtotals">http://esa.un.org/unmigration/migrantstocks2013.htm?mtotals</a> >. [Accessed 28 October 2013].	
Music Education	Wikipedia (2013), <i>List of university and college schools of music</i> . [online] Available at:< <a href="http://en.wikipedia.org/wiki/List_of_university_and_college_schools_of_music">http://en.wikipedia.org/wiki/List_of_university_and_college_schools_of_music</a> >. [Accessed 5 November 2013].  Wikipedia (2013), <i>Music schools in Scotland</i> . [online] Available at: < <a href="http://en.wikipedia.org/wiki/Music_schools_in_Scotland">http://en.wikipedia.org/wiki/Music_schools_in_Scotland</a> >. [Accessed 5 November 2013].  Wikipedia (2013), <i>List of colleges and university schools of music in the United States</i> . [online] Available at < <a href="http://en.wikipedia.org/wiki/List_of_colleges_and_university_schools_of_music_in_the_United_States">http://en.wikipedia.org/wiki/List_of_colleges_and_university_schools_of_music_in_the_United_States</a> >. [Accessed 5 November 2013].	World Bank (2013), "Population (Total)," <i>World Development Indicators</i> World Bank Washington DC. [online] Available at: < <a href="http://data.worldbank.org/indicator/SP.OP.TOTL">http://data.worldbank.org/indicator/SP.OP.TOTL</a> >. [Accessed 16 January 2014].
No Relig	Maoz, Zeev and Errol A. Henderson (2013) "The World Religion Dataset, 1945-2010:	

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NoRelig1980	<p>Maoz, Zeev and Errol A. Henderson (2013) “The World Religion Dataset, 1945-2010: Logic, Estimates, and Trends” <i>International Interactions</i>, 39(3). [online] Available at: <a href="http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp">http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp</a>. [Accessed 10 June 2013].</p>	
Oil Export	<p>World Bank (2009), "Energy production (kt of oil equivalent)," World Development Indicators. [online] Available at: <a href="https://www.cia.gov/library/publications/the-world-factbook/rankorder/2176rank.html">https://www.cia.gov/library/publications/the-world-factbook/rankorder/2176rank.html</a>. [Accessed 21 June 2013].</p>	<p>World Bank (2013), “Population (Total),” <i>World Development Indicators</i> World Bank Washington DC. [online] Available at: <a href="http://data.worldbank.org/indicator/SP.OP.TOTL">http://data.worldbank.org/indicator/SP.OP.TOTL</a>. [Accessed 16 January 2014].</p>
OilM	<p>World Bank (2011), Oil rents (% of GDP), World Development Indicators, World Bank: Washington DC. [online] Available at: <a href="http://data.worldbank.org/indicator/NY.GDP.PETR.RT.ZS">http://data.worldbank.org/indicator/NY.GDP.PETR.RT.ZS</a>. [Accessed 15 May 2013].</p>	
PopDen	<p>World Bank (2011), Mineral rents (% of GDP), World Development Indicators, World Bank: Washington DC. [online] Available at: <a href="http://data.worldbank.org/indicator/NY.GDP.MINR.RT.ZS">http://data.worldbank.org/indicator/NY.GDP.MINR.RT.ZS</a>. [Accessed 15 May 2013].</p> <p>World Bank (2013), "Population density (people per sq. km of land area)," <i>World Development Indicators</i>, World Bank: Washington DC. [online] Available at: <a href="http://data.worldbank.org/indicator/EN.POP.DNST">http://data.worldbank.org/indicator/EN.POP.DNST</a>. [Accessed 16 January 2014].</p>	
Population	<p>World Bank (2013), “Population (Total),” <i>World Development Indicators</i> World Bank</p>	

	Washington DC. [online] Available at:	
Prot1980	< <a href="http://data.worldbank.org/indicator/SP.POP.TOTL">http://data.worldbank.org/indicator/SP.POP.TOTL</a> >. [Accessed 16 January 2014]. Maoz, Zeev and Errol A. Henderson (2013) "The World Religion Dataset, 1945-2010: Logic, Estimates, and Trends" <i>International Interactions</i> , 39(3). [online] Available at: <a href="http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp">http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp</a> . [Accessed 10 June 2013].	
Prot2010	Maoz, Zeev and Errol A. Henderson (2013) "The World Religion Dataset, 1945-2010: Logic, Estimates, and Trends" <i>International Interactions</i> , 39(3). [online] Available at: <a href="http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp">http://www.thearda.com/Archive/Files/Descriptions/WRDNATL.asp</a> . [Accessed 10 June 2013].	
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