## **Supplemental Materials**

## Do Needs For Security and Certainty Predict Cultural and Economic Conservatism? A Cross-National Analysis

## by Malka et al., 2014, Journal of Personality and Social Psychology

## http://dx.doi.org/10.1037/a0036170

Table S1

Descriptive Statistics by Nation

	Ando	orra	Arge	ntina	Austı	ralia	Bra	zil	Bulg	aria	Burk Fas		Cana	ada	Ch	ile
Variable	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Individual- level variables																
Right-wing identification	12	.22	02	.21	02	.22	03	.27	11	.24	12	.29	03	.21	04	.24
Opp. homosexuality	48	.30	18	.40	21	.37	04	.33	02	.34	.24	.22	20	.36	13	.35
Opp. abortion	35	.32	.06	.34	21	.34	.16	.26	20	.35	.16	.27	08	.32	.12	.28
Supp. preferential hiring of men	30	.24	06	.43	14	.36	09	.41	02	.41	.21	.46	21	.35	.02	.43
Opp. immigration			01						03							
Supp. harsh punishment of criminals	.01	.31	.07	.33	01	.32	20	.37	04	.37	.06	.30	04	.30	10	.33
Supp. income inequality	.03	.27	06	.37	03	.28	03	.35	03	.31	.13	.31	03	.27	12	.33
Supp. private business																
ownership Opp. social	.05	.24	18	.32	.05	.26	01	.34	05	.30	.03	.30	.11	.25	11	.27
welfare programs	04	.27	01	.36	.09	.29	07	.33	10	.30	06	.33	.11	.28	02	.31
Right-wing	23	.16	02	.20	11	.20	02	.17	06	.17	.10	.16	10	.19	01	.18

cultural													
composite													
Right-wing													
economic													
composite	.01	.16	08	.23	.04	.19	04	.19	06	.22	.03 .1	9 .06 .18	309 .21
Sex	.00	.50	.03	.50	.05	.50	.08	.49	.04	.50	01 .5	0 .08 .49	.05 .50
Age	03	.17	01	.22	.09	.21	04	.20	.05	.21	10 .1	7 .07 .22	2 .00 .21
Education													
level	.07	.29	05	.23	.18	.27	06	.24	.06	.27	28 .2	2 .07 .27	.00 .25
Income level	.09	.19	Na	na	.04	.33	06	.24	11	.19	11 .2	2 .09 .32	206 .21
NSC													
(conservation													
values)	05	.14	01	.14	02	.15	.05	.13	.03	.14	.00 .1	3 –.02 .15	5 .00 .16
<ems>Political</ems>	01	.21	14	.22	.09	.19	01	.21	08	.21	04 .2	1 .03 .22	2 –.13 .22
engagement													
<ems>N</ems>	1,0	03	1,0	02	1,42	21	1,50	00	1,0	01	1,534	2,164	1,000
Nation-level													
variables													
Human			1	_	24	2	0′	2	0	7	<b>60</b>	20	1.5
development	na	a	.1	5	.30	J	.0.	3	.0	/	69	.30	.15
Ideological	1	1	1	1	5	1	1	0		22	10	26	05
constraint	.4	1	.1	1	.54	+	1	9	3	)3	10	.36	.05
Location outside													
Eastern													
Europe	.5	0	.5	0	.50	)	.50	0	5	50	.50	.50	.50
NSC internal													
consistency	.1	4	(	)9	.1′	7	2	20	.1	7	24	.03	.16
-													
	Chi	na	Cyp	rus	Egy	pt	Ethic	pia	Finla	and	France	Georgia	Germany
Variable	M	SD	M	SD	M	SD	M	SD	M	SD	M $SI$	O M SL	M SD
Individual-													
level variables													
Right-wing													
identification	na	na	06	.29	14	.28	.10	.23	01	.22	10 .2	4 .04 .24	11 .20
Opp.	_		•						<u>.</u> -	<u>.</u> -			
homosexuality			.03	.34	na	na	.27	.16	22	.38	28 .3	6 .31 .07	7 –.26 .34
Opp. abortion	.19	.24	03	.35	na	na	.18	.28	18	.31	28 .3	5 .14 .23	3 –.13 .32
Supp.													
preferential	1.7	40	0.5	4~	~ A	~ .	25	27	22	22	15 3	0 06 16	10 40
hiring of men	.17	.43	.06	.45	.54	.24	27	.27	<del>22</del>	.32	15 .3	9 .26 .42	2 –.10 .40

Opp. immigration	06	.28	.03	.25	.19	.28	13	.31	.03	.23	na	na	.15	.27	.05	.23
Supp. harsh																
punishment of																
criminals	.16	.23	.00	.32	.11	.28	.03	.28	07	.28	.00	.31	.13	.23	.07	.26
Supp. income																
inequality	01	.34	07	.34	.10	.31	.08	.25	10	.26	10	.32	.11	.31	17	.27
Supp. private																
business																
ownership	14	.30	.03	.31	20	.27	.12	.26	.08	.22	na	na	.07	.31	.03	.25
Opp. social																
welfare																
programs	.04	.34	06	.31	20	.25	.12	.24	.11	.26	.10	.30	19	.26	06	.28
Right-wing																
cultural	1.0	1.0	00	10	20	1.0	00	1.4	1.2	1.0	10	22	20	10	07	10
composite	.16	.16	.02	.19	.28	.16	.02	.14	13	.18	18	.22	.20	.13	07	.18
Right-wing																
economic	03	22	03	20	10	17	11	10	.03	.17	00	25	01	16	07	10
composite																
Sex	.04		.01	.50			01		.02	.50	.02	.50	.03			.50
Age	.02	.17	02	.20	03	.18	16	.13	.06	.22	.05	.23	.03	.21	.09	.22
Education																
level	13	.27	.09	.29	11	.32	10	.25	.06	.27	03	.28	.17	.25	01	.25
Income level	09	.21	.10	.19	10	.21	.04	.22	05	.28	13	.23	14	.20	03	.20
NSC																
(conservation																
values)	.04	.14	.00	.14	.16	.14	04	.12	02	.14	.00	.15	.11	.13	01	.16
<ems>Political engagement</ems>	01	.22	.00	.22	15	.24	.09	.21	.00	.19	02	.23	.02	.20	.05	.23
<ems>N</ems>	2,01	5	1,0	50	3,05	51	1,50	00	1,0	14	1,00	)1	1,50	00	2,06	54
Nation-level	2,01	-	1,0		2,00		1,0		1,0		1,00	, •	1,50		2,00	
variables																
Human																
development	.00		.2	1	1	2	6	3	.29	9	.29	)	0	4	.26	5
Ideological	.00			_	.1	-	.0	_	•=	-			.0	•	(	-
constraint	15	5	1	1	3	6	1	2	.2:	5	.32	2	2	4	.13	3
Location			• •	=		-	.1	-		-	.52			-		-
outside																
Eastern																
Europe	.50		.50	0	.50	)	.50	)	.50	$\mathbf{C}$	.50	)	5	0	.50	)
NSC internal	15	5	.0	0	.15	5	0	7	.1:	5	.06	5	.16	5	.28	3

consistency																
	C1.		Gre		T., .1	•_	T., 1.,		т		T		T	1	N / - 1 -	
Variable	Gha <i>M</i>	ına SD	Brit M	am SD	Ind M	1a SD	Indor M	iesia SD	Ira M	an SD	Japa <i>M</i>	an SD	JOIC M	ian <i>SD</i>	Mala <i>M</i>	•
Individual- level variables	171	SD	1/1	SD	171	SD	171	SD	111	SD	171	SD	171	SD	171	SD
Right-wing identification	.09	.27	05	.21	15	.33	.10	.25	na	na	03	.20	.00	.36	na	na
Opp. homosexuality	.24	.20	19	.37	.10	.34	.29	.14	.27	.17	09	.33	.33	.04	.10	.26
Opp. abortion			12	.31	.07	.34		.16	.17	.24	08		.29	.11	.10	.26
Supp. preferential hiring of men			17	.38			.22			.38					.30	
Opp. immigration Supp. harsh	02	.28	Na	na	.09	.38	.15	.22	.21	.27	.07	.21	.19	.26	.24	.19
punishment of criminals	.11	.28	.03	.28	.02	.38	.16	.23	.03	.31	.09	.25	.20	.20	03	.24
Supp. income inequality	.21	.30	05	.29	12	.41	.16	.25	19	.33	.03	.23	.12	.39	.08	.24
Supp. private business ownership Opp. social	11	.37	Na	na	05	.39	09	.30	02	.34	.08	.20	.00	.40	04	.25
welfare programs Right-wing	03	.35	.11	.30	05	.39	.06	.34	12	.31	10	.27	18	.33	.05	.28
cultural composite Right-wing	.15	.15	11	.21	.12	.21	.22	.14	.22	.15	.04	.16	.31	.09	.14	.13
economic composite	02	22	.03	24	08	24	04	18	_ 11	.20	00	16	_ 02	10	.03	13
Sex	01			.50			02		.00	.50					.00	
Age	11				02					.16					12	
Education level	17				12				.01	.30					.04	
Income level NSC	03	.26	.17	.29	12	.24	.05	.23	.01	.22	01	.32	na	na	.13	.19
(conservation values)	02	.11	.00	.16	03	.12	.01	.12	.03	.13	03	.11	.01	.10	.00	.12

<ems>Political</ems>	02	.24	.00	.23	10	.24	03	.20	02	.21	.11	.18	07	.23	.01	.17
engagement	.02				.10		.02		.02				.07			
<ems>N</ems>	1,53	34	1,0	41	2,00	01	2,0	15	2,6	67	1,09	96	1,20	00	1,20	01
Nation-level variables																
Human																
development	3	88	.2	8	2	.7	0	19	(	)4	.29	9	0	1	.0.	5
Ideological																
constraint	1	2	.5	9	0	5	.00	$\mathbf{C}$	<b></b> 1	10	.04	4	3	52	2	22
Location																
outside Eastern																
Europe	.50	0	.5	0	.50	)	.50	)	.5	0	.50	0	.50	)	.50	0
NSC internal																
consistency	<b></b> 4	10	.1	8	5	0	.0	1	(	)2	2	20	1	7	2	29
	Ma	ıli	Mex	ico	Mold	ova	Moro	ссо	Nether	rlands	Norv	vay	Per	u	Pola	ınd
Variable	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Individual- level variables																
Right-wing																
identification	03	.33	.05	.33	.03	.25	.00	.21	05	.22	01	.21	01	.25	.02	.25
Opp.	12	21	06	.36	.18	24	na	no	35	27	42	22	no	no	10	.31
homosexuality Opp. abortion		.34		.33	.18				33 18		42 31		na na	na	.10	.29
Supp.	.03	.57	.00	.55	.00	.29	.23	.19	16	.54	51	.20	ma	na	.09	.49
preferential																
hiring of men	.33	.42	08	.43	.12	.44	.21	.45	21	.35	28	.26	15	.39	.03	.44
Opp.		25	0.4	20	0.0	•	0.7	22			0.0	20	0.0	20	0.4	2.5
immigration	15	.27	.04	.30	.00	.28	07	.32	na	na	.02	.20	08	.28	.04	.26
Supp. harsh punishment of																
criminals	.06	.32	18	.39	.03	.29	.12	.29	.04	.27	23	.33	.10	.25	.05	.31
Supp. income																
inequality	.18	.32	.02	.37	01	.29	06	.31	03	.28	09	.26	.18	.31	.10	.29
Supp. private																
business ownership	08	.33	03	36	06	30	.00	.25	na	na	.01	.23	13	32	15	.30
Opp. social	.00		.02	.50	.00	.50	.50	0			.51	0	.10		.10	
welfare																
programs	.02	.36	.04	.38	07	.32	23	.25	.03	.27	.01	.25	.10	.35	01	.31

Right-wing																_
cultural	00	10	0.4	10	00	1.0	10	10	17	21	25	17	0.4	10	06	10
composite	.09	.19	04	.19	.08	.10	.12	.18	17	.21	25	.1/	04	.18	.06	.18
Right-wing economic																
composite	.04	.18	.01	.23	05	.18	11	.19	.00	.24	02	.17	.05	.19	02	.20
Sex	.00	.50	.01	.50	.03	.50	.01	.50	.01	.50	.00	.50	.01	.50	01	.50
Age	06	.18	04	.20	.00	.21	07	.17	.04	.21	.03	.20	07	.19	.04	.22
Education																
level	26	.27	01	.28	02	.19	29	.25	02	.22	.16	.28	.00	.26	10	.21
Income level	.02	.26	.01	.33	.02	.23	01	.18	16	.23	.06	.31	22	.19	08	.21
NSC																
(conservation	02	12	02	1 /	02	1.4	02	1.4	07	1.5	0.0	1.0	00	12	02	1.4
values)		.13	.02	.14					07		06					
<pre><ems>Political engagement</ems></pre>	.03	.24	05	.23	07	.20	10	.25	.04	.22	.13	.18	11	.21	04	.21
<ems>N</ems>	1,5	34	1,5	60	1,04	46	1,20	00	1,0	50	1,0	25	1,5	00	1,0	00
Nation-level	1,0		1,0		1,0		-,-		-,0		1,0		1,0		1,0	
variables																
Human																
development	6	57	.0	8	1	2	<b>2</b>	22	.2	9	.3	1	(	)1	.1:	5
Ideological		•		10				_		0	_	0	_			
constraint	2	28		18	2	21	1	.5	.4	8	.5	0	3	31	2	25
Location outside																
Eastern																
Europe	.5	0	.5	0	5	50	.50	0	.5	0	.5	0	.5	0	5	0
NSC internal																
consistency	(	)7		36	0	)1	.0′	7	.1	5	.4	0	3	88	.20	6
	ъ		ъ		ъ		G 1		C1		Sou		Sou		a	
37 ' 11	Rom		Rus		Rwa		Serl		Slov		Afr		Koı		Spa	
Variable	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Individual- level variables																
Right-wing																
identification	.03	.26	Na	na	01	.30	.02	.25	05	.25	.09	.25	.00	.23	12	.22
Opp.																
homosexuality	.21	.24	.16	.28	.27	.15	08	.39	17	.39	.10	.29	.11	.25	30	.33
Opp. abortion	.06	.31	03	.33	.24	.17	10	.34	26	.35	.12	.29	.03	.25	18	.33
Supp.								-		-	_					
preferential	.10	.44	.08	.45	07	.43	13	.35	17	.36	.06	.46	.16	.39	16	.39

hiring of men															
Opp.															
immigration	05 .3	1 Na	na	21	.24	.08	.30	.01	.24	.21	.28	.01	.21	.02	.23
Supp. harsh															
punishment of criminals	.22 .1	6 .15	.26	.06	23	.03	.33	05	.33	.07	29	.05	.28	.02	26
Supp. income	1	0 .10	.20	.00		.00		.02	.55	•07	,	.02	0	.02	.20
inequality	14 .3	2 .06	.38	.01	.30	.02	.30	13	.30	03	.35	.08	.27	03	.29
Supp. private															
business	07 2	4 No	***	01	26	01	20	06	20	01	24	02	26	Λ1	24
ownership Opp. social	.07 .3	4 Na	na	01	.20	01	.28	.06	.28	01	.34	02	.20	01	.24
welfare															
programs	.00 .3	3 –.16	.32	.09	.28	01	.29	05	.30	.00	.34	15	.27	06	.25
Right-wing															
cultural	.11 .1	7 00	.20	06	12	04	10	12	20	11	17	07	16	12	10
composite Right-wing	.11 .1	1 .09	.20	.00	.13	04	.10	12	.20	.11	.1/	.07	.10	12	.10
economic															
composite	03 .2	405	.28	.03	.16	.00	.20	05	.21	01	.21	03	.15	04	.18
Sex	.04 .5	0 .03	.50	.01	.50	01	.50	.04	.50	.00	.50	.00	.50	.00	.50
Age	.07 .2	201	.20	10	.17	01	.19	.04	.22	04	.20	02	.18	.04	.23
Education	0.1	<b>.</b> 10	2.5	22	4.5	0.0	2.5	0.5	2.4	0.0		2.2	20	0.5	2.0
level	.01 .2			22				.06		09					
Income level	.09 .3	1 .14	.26	16	.22	01	.21	.02	.21	.01	.26	.01	.20	03	.19
NSC (conservation															
values)	.06 .1	3 .02	.16	.02	.12	.01	.16	.01	.17	.00	.12	03	.13	.00	.12
<ems>Political</ems>	12 .2	104	.20	02	.20	09	.19	09	.20	03	.22	.03	.18	10	.22
engagement															
<ems>N</ems>	1,776	2,0	)33	1,50′	7	1,22	20	1,0	37	2,98	38	1,20	00	1,2	00
Nation-level variables															
Human															
development	.06	.(	)4	55	5	na	l	.2	3	1	8	.24	4	.2	8
Ideological															
constraint	14	).	)8	15	5	1	0	(	)3	1	8	0	1	.2	8
Location															
outside Eastern															
Europe	50	<u> </u>	50	.50		5	0	5	50	.50	)	.50	)	.5	0

110.01																
NSC internal consistency	.25	5	.1	8	3	13	.50	n	.50	n	1	0	0	14	.0	1
consistency	.2.	,	•1	O	••	,,	.5	J	Trini		.1	· O	.0	<b>/</b> -T	Uni	
	Swed	den	Switze	rland	Taiv	van	Thail	and	and To		Turk	кеу	Ukra	ine	Stat	
Variable	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Individual-																
level variables																
Right-wing	01	24	06	22	05	24	05	20	0.4	20	05	20	0.1	22	00	20
identification	01	.24	06	.22	.05	.24	.05	.20	.04	.28	.05	.30	01	.22	.00	.20
Opp. homosexuality	49	.28	36	.36	.02	.32	.10	.21	.22	.21	.25	.18	.15	.25	06	.36
Opp. abortion							.16			.23			01			
Supp.	• • •		,			0			,		,,		.01	,		
preferential																
hiring of men	33	.17	08	.41	.13	.45	.09	.42	08	.43	.24	.44	.04	.44	18	.31
Opp.	00	22	05	10	1.2	22	17	22	10	22	00	20	00	27	07	24
immigration	08	.23	05	.19	.13	.22	.17	.23	.12	.23	.09	.30	08	.21	.07	.24
Supp. harsh punishment of																
criminals	20	.34	.00	.29	.08	.25	13	.27	.12	.29	.05	.27	.04	.29	07	.29
Supp. income																
inequality	.02	.27	25	.26	.11	.26	.13	.21	.14	.34	10	.34	.11	.28	.03	.24
Supp. private																
business ownership	.06	24	.07	.24	01	26	_ 10	24	.00	36	06	30	_ 15	29	20	22
Opp. social	.00		.07	.2 .	.01	.20	.10		.00	.50	.00	.50	.13	,	.20	
welfare																
programs	.17	.24	.11	.29	.02	.29	.11	.27	.03	.38	02	.31	10	.29	.12	.30
Right-wing																
cultural composite	_ 31	16	_ 13	19	08	18	08	14	.11	14	16	17	03	16	- 06	18
Right-wing	.51	.10	.13	.17	.00	.10	.00	.1.	,11		.10	.1,	.03	.10	.00	.10
economic																
composite	.08	.19	03	.17	.04	.17	.05	.13	.06	.21	06	.20	05	.19	.11	.17
Sex	.00	.50	.05	.50	01	.50	.01	.50	.05	.50	.00	.50	.16	.47	.00	.50
Age	.06	.21	.12	.20	.01	.20	.03	.20	01	.22	08	.17	01	.21	.06	.21
Education		2.1	4 -	0=	4.0	22	0.0	<b>.</b> -	o =	2.5	<b>~</b> =	2 -		2-		<i>4 -</i>
level	.16								05		06					
Income level	.15	.32	.07	.20	03	.20	.09	.22	.01	.22	15	.26	05	.21	.03	.21
NSC (conservation	_ 07	15	_ 05	16	NΩ	12	_ 02	ΛQ	.02	14	02	13	04	16	_ 01	1/
(Conscivation)	07	.13	03	.10	.00	.13	02	.09	.02	.14	.02	.13	.04	.10	01	.14

values)											
<ems>Political engagement</ems>	.12	.19	.12	.20	11	.20	.11 .17	06 .	21 –.09 .24	404 .20	.07 .21
<ems>N</ems>	1,00	)3	1,2	41	1,2	27	1,534	1,002	2 1,346	1,000	1,249
Nation-level variables	-,-		-,-		_,		-,	-,	,,-	-,	_,
Human development	.29	)	.2	9	na	a	.00	.06	01	.01	.29
Ideological constraint	.64	1	.2	4	.0:	3	22	10	.08	24	.57
Location outside Eastern											
Europe	.50	)	.5	0	.50	0	.50	.50	.50	50	.50
NSC internal consistency	.17	7	.1	4	.0:	3	44	28	.00	.32	.16
	Urug	uay	Viet	nam	Zam	bia					
Variable Individual- level variables	M	SD	M	SD	M	SD					
Right-wing identification	05	.27	.37	.16	.11	.26					
Opp. homosexuality	19	.34	.23	.19	.15	.28					
Opp. abortion Supp.	07	.35	.16	.21	.08	.31					
preferential hiring of men	11	.41	.14	.44	.04	.45					
Opp. immigration	12	.24	20	.28	.09	.29					
Supp. harsh punishment of criminals	12	.31	.18	.17	04	.33					
Supp. income inequality	06	.30	.01	.35	.04	.33					
Supp. private business	0.1	2 -	0.1		0.0	a -					
ownership	.01	.26	.04	.33	08	.35					

Opp. social				
welfare	01 20	) 10	32	05 .36
programs Right-wing	01 .30	.10	.32	03 .30
cultural				
composite	12 .18	3 .11	.14	.06 .17
Right-wing				
economic				
composite	02 .18	3 .05	.21	03 .20
Sex	06 50	) _ 01	50	01 .50
DCA	.00 .30	, –.01	.50	01 .30
Age	.04 .23	303	.20	15 .15
Education				
level	09 .24	109	.20	05 .23
T., 1 1	02 10	0.00	17	07 27
	03 .18	8 .08	.17	.07 .27
NSC (conservation				
values)	.01 .14	1 .04	.13	03 .13
<ems>Political</ems>				01 .22
engagement				
<ems>N</ems>	1,000	1,4	.95	1,500
Nation-level				
variables				
Human development	.12	<b>-</b> .(	08	58
Ideological	.12	• `		.50
constraint	02		23	20
Location				
outside				
Eastern	<b>5</b> 0	_	· O	<i>5</i> 0
Europe	.50	.5	U	.50
NSC internal consistency	15	2	0	44
2011010tOlley	.13	• -		

Note. Sex was coded -.50 = male, .50 = female. Location outside Eastern Europe was coded -.50 = Eastern Europe, .50 = Outside Eastern Europe. All other nation-level variables were scaled to range from 0 to 1 and then centered around the mean from nations with complete item administration. All other individual-level variables were scored from items scaled to range from 0 to 1 and then centered around the grand mean from nations with complete item administration. NSC = needs for security and certainty;

SD =standard deviation; Opp. = opposition to; Supp. = support for. na = variable not assessed in this nation.