Src/T	rgar	bg	bs	cs	da	de	el er	ı eo	es	frí	fr-ca	gl	he	hr	hu	id	it	ja	ko	mk	nb	nl	pl	ptp	ot-br	ro	ru	sk	sl	sr	sv	tr	uk v	izh-enz	th-tw
ar		4.9					6.7 20.3																												
bg	3.0		4.2				10.0 25.3																												
bs	1.2						4.5 21.7				4.6									12.9													5.4 5.8		1.8
cs			3.7				6.4 20.0																												
da			4.0				9.0 32.9																												
de			4.9																														7.8 11.3		
el						6.7																											7.2 14.4		
		-	14./																														17.6 26.9		
eo	1.8						8.1 23.1 16.4 33.2																										5.4 /. 10.0 17.8		3.6
es fr							15.4 31.6																										9.8 17.0		6.6
fr-ca							15.4 27.8										23.4																9.7 15.4		6.2
gl							8.5 23.4																												4.2
he							6.3 25.7																												4.6
hr							6.6 24.4																												2.9
hu			2.6	7.0			5.5 16.7																												4.2
id	4.1	9.1	4.2	5.2			11.1 24.9																												6.2
it							14.5 30.0																												5.8
ja							2.5 7.9																												
ko	0.9	1.7		1.3	2.0	1.7	1.7 8.7	1.3	4.7	4.4	3.4	1.5	0.9	0.7	1.5	3.1	3.2	9.2		1.2	1.3	1.9	1.4	4.3	4.6	2.0	2.1	1.0	1.5	0.4	1.5	1.4	1.5 4.3	3	
mk	2.4	18.2	12.0	5.4	7.2	4.3	10.3 23.4	8.9	15.2	11.5	10.0	5.4	4.0	12.6	3.7	8.9	11.1	3.5	4.7		7.5	6.7	4.5	13.9	15.6	8.3	7.5	3.5	7.1	3.7	5.6	2.0	6.4 10.9	6.3	4.3
nb	2.7	8.5		5.4	32.7	9.8	8.9 35.1	9.5	17.0	14.6		8.0	3.1	3.9	4.5	9.9	15.0	5.5	5.7	6.7			4.7	14.2	$\overline{}$	9.5	7.5	3.2	3.9	0.6	26.3	1.9	6.2 7.8	3	
nl	2.4	8.2	2.9	5.9	14.2	16.1	8.4 26.5	13.4	16.8	16.7	13.5	7.3	3.9	4.8	5.3	11.4	13.3	5.2	5.9	5.9			5.3	13.8	15.4	7.8	7.6	4.1	5.1	1.6	11.1	3.2	6.1 10.0	8.0	5.1
pl	1.8	7.4	2.9	8.2	6.6	6.5	5.4 15.1	7.5	11.4	11.3	8.6	5.2	2.3	4.8	4.0	7.5	8.6	4.2	5.7	5.2	4.1	6.2		9.6	9.9	6.2	9.5	6.2	5.3	1.5	5.6	2.4	8.9 7.3	6.3	3.6
pt	7.4 1	15.2	7.0	8.0	15.5	13.2	18.7 35.0	12.0	32.4	26.7	19.0	23.0	8.8	10.3	8.4	17.5	24.4	7.8	10.6	13.1						15.3	11.7	6.6	8.1	2.0	14.3	6.2	9.3 18.0	12.9	5.8
pt-br							17.6 37.3															14.8											10.8 18.8		6.7
ro							10.4 25.0																												4.9
ru							8.3 18.7																										22.5 11.5		5.2
sk							3.2 16.9																										5.4 5.4		2.5
sl							5.8 17.3																				5.9			1.9			4.3 7.4		2.6
sr							5.8 22.8																								3.0		5.7 6.8		3.1
sv							8.1 31.8																									3.2	6.9 12.9		4.8
tr							4.7 15.9																										3.3 8.2		
uk							8.4 20.7																		12.9								11.4		4.9
vi							8.8 20.2																												6.7
							4.5 11.8										6.0			3.4													3.0 10.8		
zh-tw	2.2	5.1	1.1	2.1	5.7	2.8	3.9 10.7	5.4	7.5	7.2	6.1	2.8	1.8	1.6	3.0	6.2	5.4			2.8		3.5	2.3	6.3	6.9	3.5	3.9	1.4	2.1	0.9	5.0	2.4	2.9 10.0	,	

Table 1: WikiMatrix: BLEU scores on the TED test set for some selected languages. All NMT systems were trained on the mined texts only.