

# Multi-source MT

Johnson et al. 2016 (Google)

- Sanity check: must not make things worse.

Table 1: Many to One: BLEU scores on various data sets for single language pair and multilingual models.

Model	Single	Multi	Diff
WMT German→English (oversampling)	30.43	30.59	+0.16
WMT French→English (oversampling)	35.50	35.73	+0.23
WMT German→English (no oversampling)	30.43	30.54	+0.11
WMT French→English (no oversampling)	35.50	36.77	+0.27
Prod Japanese→English	23.41	23.87	+0.46
Prod Korean→English	25.42	25.47	+0.05
Prod Spanish→English	38.00	38.73	+0.73
Prod Portuguese→English	44.40	45.19	+0.79