Effective district magnitude

Codebook

Citation: Bochsler, Daniel, Miriam Hänni, and Bernard Grofman. forthcoming. "How proportional are electoral systems? A universal measure of electoral rules." *Electoral Studies*.

Effective district magnitude

m_eff   Effective district magnitude (all rules 1-4 applied)

m_eff0000
...
m_eff1234   District magnitude with transformations (rules 1-4) applied modularly

		District magnitude		... and Legal thresholds	
		no transform.	PR formula	no transform.	PR formula
		-	**Rule 1**	**Rule 2**	**Rules 1+2**
only lower tier	**-**	m_eff0000	m_eff1000	m_eff0200	m_eff1200
Multi-tier	**Rule 3**	m_eff0030	m_eff1300	m_eff0230	m_eff1230
Multi-tier + MMP	**Rules 3+4**	m_eff0034	m_eff1340	m_eff0234	m_eff = m_eff1234
Lower m. + upper %	**C-G**	m_eff0000 + Nupper	m_eff1000 + Nupper	m_eff0200 + Nupper	m_eff1200 + Nupper

Reading example. The "effective district magnitude", m_eff, is an index based on all four rules, i.e. m_eff=m_eff1234. Lower-tier district magnitude is m_eff0000.

We don't allow for rule 4 being used independently of rule 3, i.e. the distinction between MMM/MMP systems is not applicable if rule 3 (MMM systems) is not applied.

m_eff0000   Lower-tier district magnitude
m_eff1000   Lower-tier district magnitude with rule 1 (different PR seat allocation formula)
m_eff1200   Lower-tier district magnitude with rules 1+2 (different PR seat allocation formula and legal thresholds)
m_eff1230   District magnitude in both tiers with rules 1+2+3 (different PR seat allocation formula and legal thresholds, MMM/multi-tier systems)
m_eff1234   District magnitude in both tiers with rules 1+2+3 (different PR seat allocation formula and legal thresholds, MMM/multi-tier systems, MMP/compensatory)

m_efsC   Effective district magnitude (rules 1-4) with an extension for MMP systems with small number of upper-tier seats
ms_lishugart   MS seat product (Taagepera & Shugart, Li & Shugart)
m_renwick   Effective district magnitude calculation based on arithmetic mean

upper   Upper-tier seat share

| elsys | Type of electoral system |
| elsysr | Type of electoral system, reduced categories (1 PR 2 plurality 3 runoff/AV 4 MMM/multi-tier 5 MMP/multi-tier compensatory 6 PR bonus) |

Dependent variables

lnn2seat	Effective number of parties in parliament (by seats), logarithm
lnn2vote	Effective number of elective parties (by votes), logarithm
lnlsq	Disproportionality (least-square index)

Control variables and subsets

ln_ethfract	Ethnic fractionalisation index, logarithm
ln_pop	Population, logarithm
polity	Polity IV
dpi_pres	Presidential regimes