

Appendices

Appendix A

Estimation results for the air pollutants

Dependent variable	NO _x	SO ₂	CO	SPM	VOC	CO ₂
<i>Y</i>	4.57*(4.6)	6.40*(4.1)	-46.36*(-3.0)	10.4*(2.6)	-53.15*(-2.1)	2.50*(3.1)
<i>Y</i> ²	-0.23*(-4.2)	-0.35*(-4.2)	5.09*(3.1)	-0.57*(2.7)	5.62*(2.1)	-0.11*(-2.6)
<i>Y</i> ³	-	-	-0.18*(-3.1)	-	-0.19*(-2.0)	-
<i>M</i>	0.27*(2.6)	0.75*(3.9)	0.51*(5.0)	0.39(0.8)	0.20 [†] (1.6)	0.16 [†] (1.8)
DX	-0.027(-0.6)	0.15*(2.1)	-0.50*(-11.8)	-0.15(-0.9)	-0.12*(-2.8)	-0.052*(-2.0)
DM	-0.054(-1.4)	-0.11*(-2.0)	-0.16*(-4.0)	-0.33*(-2.0)	-0.069 [†] (-1.6)	0.042 [†] (1.6)
Trade	-0.044(-0.7)	-0.45*(-5.1)	-0.87*(-20.6)	-0.47*(-2.2)	-0.26*(-4.0)	-0.0044(-0.09)
<i>R</i> ²	0.39	0.72	0.60	0.77	0.43	0.46
<i>n</i>	234	247	221	117	208	286
Peak turn. pt. (1995 \$)	\$17,675	\$7621	\$24,744	\$8650	\$42,216	\$63,771
Peak turn. pt.(no DM, DX)	\$17,399	\$5265	\$24,373	\$10,801	\$26,735	\$34,880
<i>F</i> -test (DM and DX)	3.76(0.15)	6.78*(0.03)	257.26*(0.00)	7.46*(0.02)	12.25*(0.00)	5.39 [†] (0.06)

* and + denote statistical significance at 95% and 90% confidence levels, respectively.

Estimation results for the air pollutants (Cole, 2004).

Appendix B

Estimation results for the water quality indicators

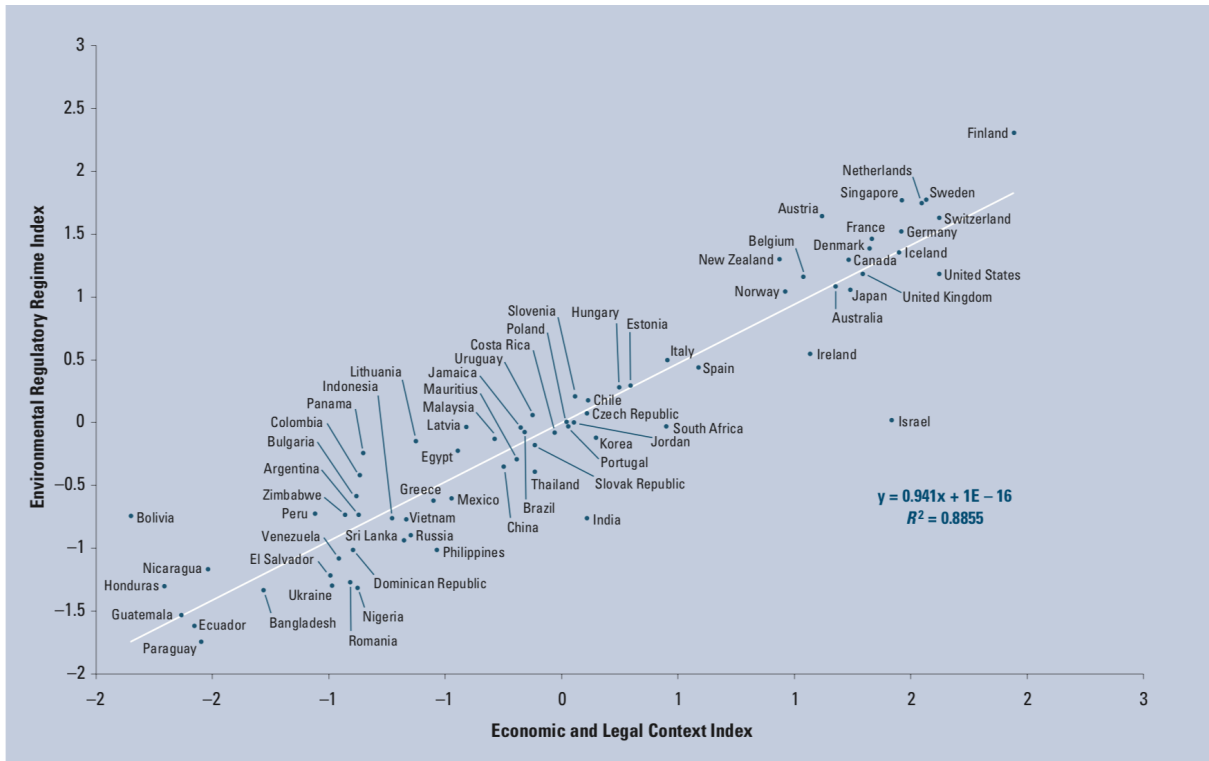
Dependent variable	BOD	Dissolved oxygen	Nitrates	Phosphorous
<i>Y</i>	4.1*(2.0)	-1.51*(-2.3)	4.95*(2.5)	15.1*(6.2)
<i>Y</i> ²	-0.22*(-2.0)	0.089*(2.5)	-0.24*(-2.2)	-0.81*(-6.2)
<i>Y</i> ³	-	-	-	-
<i>M</i>	-2.5*(-7.4)	0.32*(3.3)	1.3*(5.1)	2.1*(8.8)
DX	0.12 [†] (1.7)	-0.049*(-2.3)	0.48*(3.8)	0.52*(4.1)
DM	-0.029(-0.5)	0.11*(8.5)	0.58*(5.5)	0.56*(4.1)
Trade	0.39*(3.7)	0.090*(2.7)	0.63*(4.4)	-0.32 [†] (-1.7)
<i>R</i> ²	0.43	0.41	0.77	0.67
<i>n</i>	416	494	585	559
Peak turn. pt. (1995\$)	\$7034	\$5614	\$32,504	\$10,436
Peak turn. pt. (no DM, DX)	-	\$5109	\$19,608	\$9013
<i>F</i> -test (DM and DX)	3.14(0.20)	77.82*(0.00)	71.23*(0.00)	65.74*(0.00)

For dissolved oxygen the reported turning point represents the trough rather than the peak since this indicator is positively related to water quality. The expected signs of the estimated coefficients are therefore the opposite of those for the other indicators.

* and+ denote statistical significance at 95% and 90% confidence levels, respectively.

Estimation results for the water pollutants (Cole, 2004).

Appendix C



Relationship between the environmental regulatory regime index and economic and legal context index (Esty and Porter, 2002)

