Figure 4.6. Physical Impact by 2080

Physical estimates of climate change impact confirm that Asia and Africa are particularly vulnerable to climate change.

Sources: Cline (2007); and Yohe and others (2007).

1 Data for panels 1–4 are from Yohe and others (2007); sample includes estimates from A1FI, A2, B1, and B2 Special Report on Emissions Scenarios (IPCC, 2007). Data for panels 5–6 are from Cline (2007). All impacts are measured relative to the situation in 2080 with no climate change. Regional compositions may not be comparable across panels.

2 Carbon fertilization refers to the increase in crop productivity as a result of the effect of carbon dioxide on crops. Estimates without carbon fertilization are weighted averages of the estimates from a Ricardian model and crop models. Estimates with carbon fertilization include the effect of a uniform boost of 15 percent in yield. See Cline (2007) for more information.