Map Set 2: Impact on Land Cover

This series of maps displays information related to the potential environmental impacts of *additional* gas development in *Pennsylvania* if all remaining technically recoverable resources in the Interior Marcellus shale were developed using high volume hydraulic fracturing and horizontal drilling with eight wells per well pad.

This map set includes projections of the impacts of construction of natural gas infrastructure development on land cover in Pennsylvania. The analysis only considers development of 3 types of natural gas infrastructure: well pads, access roads, and gathering pipelines. (Water and wastewater infrastructure, equipment storage, and intrastate and interstate gas transmission pipelines are not part of this analysis.)

Note: These maps contain *projections* of natural gas development and associated environmental impacts under a particular set of circumstances and assumptions. They are not *predictions* of development or impacts, and should not be used for commercial purposes, to guide investment decisions, or for short-range planning decisions. Furthermore, the maps should not be used to inform planning or decision making for geographic units smaller than the primary units of analysis (counties or HUC-10 watersheds).

Land Cover Impact Maps

This map set includes projections of the following land cover impacts:

- 2.1 Land disturbance by county
- 2.2 Land disturbance by watershed
- 2.3 Forest cleared by watershed
- 2.4 Core forest loss by watershed
- 2.5 Existing developed area versus new clearing for gas infrastructure
- 2.6 Stream crossings by watershed

For additional documentation and methodology used to create these maps, please download the research report at: <u>www.cna.org/PA-Marcellus</u>

























