Index

Agricultural materials toxicity index AMTI, 431, 433 Age structure of population. See Population, age Agricultural output, defined, 204, 206 Aggregation in World3, 12-13. See also under sector Agriculture sector aggregation of, 12, 266 and other entries assumptions, 259, 264, 265-267, 268-269, Agricultural inputs AI. See also Agricultural inputs 270-271, 272, 274, 275, 280, 282, 289, 291, per hectare 292, 293, 294, 295, 304-305, 306, 307, 309, assumptions, 265, 292 310, 311-312, 315, 316-317, 317n, 320-321 decreasing returns to, 259, 262, 268, 297 322, 323, 325, 326, 327-328, 329, 330, 331, defined, 259, 292 332, 496 effective life of, 292 effects of, 274, 322-323 definitions, 265 DYNAMO flow diagram of, 277 equations, 292-293 feedback-loop structure of, 269-276 and IFPC, 293 historical run in World3, 495-496 in industrialized and nonindustrialized areas, historical trends, 259, 268, 333-336, 495 293-294 program with exogenous inputs, 362-365 intensive use of, 323 program in World3, 576-582 investment in, 16, 265, 272 sensitivity tests, 333-361 and LY, 259, 265, 272, 301-302, 304-306, 307, standard run, 336-339 496 Air pollution. See also Pollution, local and LYMC, 295-296 assumed distribution of, 309 1900 estimated value, 293 control technologies, 516-517 and pollution, 297-298, 432, 434-435, 451 and crop losses, 308 Agricultural inputs per hectare AIPH costs of, 308 data on, 237 and land erosion rate, 317n defined, 294 and land vield, 267, 307-310, 317n, 323 in developing and industrialized areas, 294-295 and land mortality, 81-82 and generation of pollutants, 432 and LFD, 274 and IOPC, 238 versus persistent pollution, 307, 425 and JPH, 238, 239 reduction of, 421 and LY, 295, 296, 301-302, 304-306, 496 in urban and nonurban areas, 308 and LYMC, 295, 301-302, 306, 307 and urbanization, 82-83 and MLYMC, 313 Arable land AL. See also Potentially and PFR, 332 arable land and regeneration of land, 330-331, 332 aggregation in model, 266 value limit, 306 cropping intensity, 281, 316 Agricultural land. See Arable land