

TABLE VIII-4

Recommended Actions - Land Resources

Issue	Recommended Action	Partnering Organizations/Agencies	Funding Sources	Priority & Steps of Action	Priority Area
Land Resources					
Land Use Planning				HHH	Watershed-Wide
	Complete or update county comprehensive plans to provide a model for municipalities.	CP	DCED	1	
	Create needed GIS layers for all watershed counties. (See IS)	JCWP, CP, NRCS	DCNR, DEP, NRCS	1	
	Discourage development in environmentally sensitive areas, such as steep slopes, floodplains, and wetlands. Provide GIS mapping of these areas to the counties.	DEP, CD, Munic		1	
	Educate, promote, and provide assistance for the establishment of Agricultural Security Areas and countywide agricultural easement programs.	CD, RC&D, PSCE, CP, PDA, Munic	PDA, NRCS	1	
	Encourage and provide incentives for regional and multi-municipal planning efforts.	CP, JCWP, DCED, PSATS	DCED, DCNR, DEP	1	
	Encourage the completion of mandated environmental plans for all municipalities.	CD, Munic, RC&D, CP		1	
	Establish and promote urban growth boundaries.	CP, NPO, SEDACOG, SAPDC		1	
	Provide education and assistance for open-space preservation and open space/conservation subdivision planning. Promote conservation subdivision and better site design standards.	CD, CP, DCNR, Land Conservancies	DCNR, DCED	1	
	Provide education and assistance to municipal officials on comprehensive planning, subdivision ordinances, and zoning ordinances, including sample ordinances.	CP, DCED	DCED, DEP, DCNR	1	
	Provide incentives and encourage municipalities to do comprehensive plans and keep up to date.	DEP, DCED, CP	DCED, DCNR	1	
	Commit to continuous evaluation of local and basin-wide planning and implementation of policies and ordinances.	CD, Munic, RC&D, CP	DCNR	2	
	Encourage municipalities to develop land development ordinances in support of comprehensive and watershed plans.	CP, Munic, RC&D	DCNR	2	
	Encourage redevelopment in areas such as Brownfields.	Munic, CP, DEP, EPA	RC&D, Land Conservancies	2	
	Implement a Brownfields site inventory and provide incentives to the counties to use these sites.	CP, JCWP, EPA, DEP, CD, USACOE	EPA, DEP, USACOE	2	
	Link transportation planning to land use planning.	PADOT, CP	PADOT	2	
	Promote clustered development in areas already served by public utilities.	CP, Munic, SEDACOG, SAPDC		2	
	Promote EPA's Green Communities program.	JCWP, CP	DEP, EPA	2	
	Promote land-value (split-rate) property taxation for boroughs.	CP, Munic		2	
	Promote mixed-use development patterns.	CP, CD		2	
	Promote, plan, and provide funding for downtown revitalization projects and establish Main Street programs where needed.	CP, Munic, AHDC, EDC, DCNR, USACOE	DCED, DCNR	2	
	Promote the development of stewardship plans for institutional land management, including schools and hospitals.	CP, JCWP, CD, DEP	DCED, DCNR, DEP, NRCS	2	
	Promote the public acquisition of conservation areas.	RC&D, Land Conservancies	DCNR	2	
	Provide tax incentives to developers and homeowners who build along existing sewer lines and who reuse old home and/or factory sites.	Munic, DCED, CG, CP, SD		2	

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Land Resources					
Land Use Planning				HHH	Watershed-Wide
	Provide tax incentives to developers and homeowners who build or live in conservation subdivisions.	Munic, DCED, CG, CP, SD		2	
Erosion and Sedimentation				HH	Watershed-Wide
	Actively support the Dirt & Gravel Road Program.	CD, NRCS, BP, DEP, PSCE, SCC, YCC	DEP, NRCS, SCC	1	
	Develop model E&S ordinances for development, logging, and agriculture and provide them to municipalities.	CD, NRCS, EPA, RC&D, CP	NRCS, DEP, SCC	1	
	Educate municipal officials and the public about erosion and sedimentation BMPs: what they are, why they are needed, how to implement them.	CD, SCC, NRCS	NRCS, DEP, SCC	1	
	Educate on the contents of PA Code Chapter 102 regulations on erosion and sedimentation.	CD, SCC, NRCS	NRCS, DEP, SCC	1	
	Hold a series of educational workshops and demonstrations for practitioners on erosion and sedimentation BMPs.	CD, NRCS, PSCE	CD, DEP, BP	1	
	Promote streamside and upland tree planting on agricultural lands, lawns, and abandoned mine lands to reduce runoff and soil erosion.	BF, CD, RC&D, JCWP, PGC, DEP, WS, NPO	DEP, BF, CD, NPO	1	
	Provide additional funding to Conservation Districts for E&S projects and enforcement.	DEP, YCC	DEP, NRCS	1	
	Assist municipalities and counties in developing E&S ordinances for new construction projects.	CD, NRCS, CP, RC&D	CP, DEP, DCED	2	
	Promote existing and create new incentive programs for E&S BMP implementation projects.	CD, FSA	FSA, DEP	2	
	Reduce the use of road salts by municipalities and PennDOT. Encourage the use of safe de-icing compounds.	Munic, PADOT, CD		2	
	Regulate automobile junkyards to prevent hazardous substances from leaking into ground or surface water.	Munic, DEP, CP	DEP	2	
Forestry				HH	Watershed-Wide
	Educate landowners and loggers about the Forest Stewardship Program, and encourage their involvement.	BF, CD, PSCE		1	
	Educate loggers, municipal officials and the public about forestry BMPs: what they are, why they are needed, how to implement them.	CD, BF, PSCE, SFI, RC&D	BF, DEP, USFS	1	
	Promote the Sustainable Forestry Initiative's timber operator training programs, especially the Master Logger Program.	SFI, DCNR, BF, CD, NPO, USFS	DCNR, USFS, PDA, USDA	1	
	Provide incentives for the use of forestry BMPs.	BF, CD, DEP	BF, FSA, USFS	1	
	Encourage the development of forest conservation programs for private landowners, such as Forest Security Areas and Forest Conservation Easements.	BF, DEP, RC&D, CD	BF, DEP	2	
	Promote deer management policies that reduce their negative impacts on forest regeneration.	PGC, BF	PGC, BF	2	
	Provide incentives for landowners to use Master Loggers.	BF, CD, PSCE	DCNR, FSA	2	
	Reduce gypsy moth and other pest impacts on forest regeneration.	BF, CD, PGC, DCNR, USACOE	CG, BF, DCNR, USFS, PGC	2	
	Promote the use of certified sustainable forest products and the certification of private forestland.	BF, RC&D, CD, NPO	DCNR, FSA	3	

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Land Resources					
Intensive Livestock Operations				HH	Watershed-Wide
	Carry out studies to identify preferred areas to locate intensive livestock operations.	CD, CP, JCWP, NRCS, PSCE	PDA, DEP	1	
	Ensure that Nutrient Management Plans are completed for all CAOs and CAFOs.	CD, PDA, DEP, SCC	DEP, PDA	1	
	Hold educational workshops for municipal officials and watershed stakeholders on the pros and cons of intensive livestock operations.	NRCS, CD, DEP, EPA, JCWP, CP, PSCE	PDA, DEP	1	
	Promote sustainable agriculture and family farming.	CD, PSCE, PASA		1	
	Promote the value of managing for both nitrogen and phosphorus in nutrient management planning and implementation.	DEP, PSU, PSCE, CD, SCC, RC&D		1	
	Provide assistance and education to municipal officials about planning and zoning options related to intensive livestock operations.	CP, RC&D, NPO's	USDA, EPA, NRCS, DEP	1	
	Cooperate with and provide input to other groups working on this issue.	JCWP, PSCE, PDA, RC&D, YCC		2	
	Encourage increased funding for better enforcement of the Nutrient Management Act.	DEP, EPA, PDA, SCC, YCC	DEP, PDA	2	
	Encourage large scale operations that are not CAOs to complete voluntary Nutrient Management Plans.	CD, PDA, SCC, NRCS, FU	SCC, PDA	2	
	Encourage the delineation of designated intensive agricultural areas by municipality in land planning ordinances.	CD, CP, Munic	USDA, EPA, NRCS, DEP	2	
	Investigate alternate forms of animal production.	PSCE, USDA, CD, PDA, RC&D		2	
	Work with farmers to implement livestock BMPs to keep operations from adversely affecting water quality.	CD, NRCS, RC&D	NRCS, PDA, DEP	2	
	Investigate the use of composted animal waste and the potential for that type of facility within the watershed.	PSCE, CD, NRCS, BP, RC&D, YCC	BP, NRCS	3	
	Promote water quality monitoring before and after animal operations are established.	DEP, USFWS, PFBC, BP, CD, YCC	DEP, EPA	3	
	Research and inform about alternative storage options for waste and alternative management techniques.	JCWP, CD, NRCS, BP, RC&D, YCC	BP, NRCS, USDA	3	
Nutrient Pollution				HH	Watershed-Wide
	Educate farmers and the public on nutrient pollution from agricultural sources.	NRCS, BP, CD, DEP, YCC		1	
	Educate the public on nutrient pollution from residential lawns and urban runoff.	JCWP, WS, PSCE, CD, RC&D, NPO, DEP, CP	DEP, DCNR, PSCE	1	
	Identify the farms and land in need of nutrient management plans.	NRCS, BP, CD, YCC		1	
	Promote barnyard management.	NRCS, BP, CD		1	
	Promote nutrient management plans and their implementation.	NRCS, BP, CD, PDA, YCC	PDA, SCC	1	
	Amend Act 6 to require manure-importing operations to have nutrient management plans in place.	PDA, SCC, DEP, CD		2	
	Encourage all farms with manure storage facilities to prepare contingency plans for leaks and other emergencies.	CD, NRCS, PFBC	DEP, NRCS	2	
	Encourage farms importing manure to ensure that they do not apply excess nutrients.	CD, NRCS, PDA, DEP	PDA, SCC	2	
	Promote manure derived products in the economy.	PSCE, CD, NRCS	PSCE, NRCS	2	
	Promote the shared responsibility of the CAFO operator and the integrator in nutrient management planning.	NRCS, BP, CD, PDA		2	

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Land Resources					
Riparian (Streamside) Buffers				HH	Watershed-Wide
	Encourage volunteer groups to plant trees along streambanks.	CD, CBF, RC&D, JCWP		1	
	Implement/assist riparian (streamside) buffer revegetation programs with Conservation Districts, local planning efforts and agencies.	CD, NRCS, DEP, BP, USFWS, CBF, DU, BF, YCC, JCWP, PFBC	BP, NRCS, USFWS, CBF, DU, DCNR, PFBC	1	
	Increase funding for the construction and enhancement of wetlands along riparian areas.	CD, CBF, DU, NRCS, USFWS, BF, DEP, DCNR	CBF, DU, NRCS, USFWS, DEP, DCNR	1	
	Increase funding for the planting and restoration of riparian areas.	CD, CBF, DU, NRCS, USFWS, BF	CBF, DU, USFWS, DCNR	1	
	Incorporate riparian buffer requirements in local subdivision and zoning ordinances.	Munic, CP, CD	DCED	1	
	Provide education on the value and different zones of riparian areas.	CD, CBF, USACOE, BF		1	
	Raise awareness and promote the Conservation Reserve Program and the Conservation Reserve Enhancement Program (CREP).	CD, NRCS, PGC	NRCS, FSA	1	
	Support the planning goals of various agencies to restore at least 600 miles of riparian buffers in Pennsylvania.	DEP, BP, CBF, JCWP, WS, NPO		1	
	Promote bio-engineering for stream restoration projects when possible; use "hard armoring" only when necessary.	CD, NRCS, NPO, PFBC, WS, USFWS		2	
	Promote, plan and provide assistance for increased riparian area plantings.	CD, CBF, DU, NRCS, USFWS, BF, YCC	CBF, DU, USFWS, DCNR	2	
	Promote regional micronurseries that provide trees to plant in riparian areas.	CBF, DU	CBF, DU, DCNR	2	
	Promote the use of Calcium Carbonate sands along streambanks to reduce the effects of AMD and acid precipitation.	CD, DEP, WS, BAMR	BAMR	2	
Solid Waste Management/Illegal Dumping					
	Begin PA CleanWays chapters to focus on waste issues.	DCNR, DEP, RC&D, JCWP, NPO	DEP, DCNR	1	Watershed-Wide
	Continue efforts that focus on cleaning up existing dumps and litter and enforcing "no dumping" ordinances.	PACW, Munic, CP, JCWP, WS, NPO	DEP, DCNR	1	
	Develop a traveling display showing dumpsites and the problems associated with illegal dumping.	PACW, JCWP, CP, RC&D	DEP, PADOT	1	
	Educate watershed residents about waste management, the value of recycling, and recycling opportunities.	CP, DEP, JCWP	DEP	1	
	Encourage municipalities & counties to develop waste management plans that deal with bulk waste, recycling, and other curbside pickup.	DEP, EPA, JCWP	DEP	1	
	Encourage municipalities to consider mandated disposal.	CP, PACW, WS, NPO		1	
	Hold pickup days for bulky waste, household hazardous waste, and tires in each municipality and county.	Munic, CP, RC&D, JCWP, NPO	DEP, DCNR, PDA, PSCE	1	
	Identify and clean hazardous waste sites.	EPA, USFWS, DEP	EPA	1	
	Identify and map illegal roadside dump sites.	CP, JCWP, PACW	DEP, DCNR	1	
	Produce an educational video about illegal dumps, clearly showing the problem.	PACW, JCWP, RC&D	DEP, DCNR	1	
	Promote additional funding to employ recycling coordinators.	JCWP, CD, CP	DEP	1	
	Promote county composting facilities.	DEP	DEP	1	
	Promote expansion of the recycling program to include all commonly used items.	JCWP, CD, CP, CRC	DEP	1	
	Promote PennDOT's road cleanup programs.	PADOT, NPO	PADOT	1	
	Run roadside litter education programs for school children.	PACW, PADOT	PADOT, DEP, DCNR	1	

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Land Resources					
Solid Waste Management/Illegal Dumping				HH	Watershed-Wide
	Set up free drop-off centers for trash and recycling. Start with a pilot project.	Munic, CG, CP, PACW	DEP, Munic	1	
	Work with the existing county solid waste planning process.	Munic, WS, PACW, NPO, CD		1	
	Create an incentive program for volunteer clean-up programs.	PACW, Munic, CP, JCWP, WS, NPO	PADOT, DEP, DCNR	2	
	Hold streamside cleanup days.	CD, CP, RC&D, YCC	TU, BP, CD	2	
	Investigate and promote basin-wide biosolids program.	CD, DEP	DEP	2	
	Promote a consistent recycling program from region to region in terms of what can be recycled.	DEP, EPA, CRC		2	
	Promote funding and subsidies to increase production and sales of recycled products and to increase the market demand for recyclables.	RC&D, NPO, DEP, DCED	DEP, DCED	2	
	Promote regulations to strengthen the recycling program: Bottle bill, policies requiring recycling.	CP, CRC, PACW, NPO, DEP		2	
	Strengthen enforcement efforts and increase penalties for illegal dumping via local ordinances.	Munic, DEP, PGC, PFBC		2	
	Monitor runoff from hazardous waste and dump sites.	EASI, RSVP, COLLEGES, JCWP	DCNR, DEP	3	
Agricultural Conservation Practices				H	Watershed-Wide
	Educate farmers, municipal officials and the public about agricultural conservation practices: what they are, why they are needed, how to implement them.	CD, NRCS, BP, DEP, PSCE, SRBC	NRCS	1	
	Hold field days to allow farmers to share information with one another about successful practices.	CD, RC&D	DEP	1	
	Provide funding and technical assistance to implement agricultural conservation practices.	CD, NRCS, BP, DEP	NRCS, BP, DCNR	2	
	Provide incentives for cover crops and crop residue management.	NRCS, CD, PGC	NRCS, FSA	2	
Herbicide and Pesticide Use				H	Watershed-Wide
	Promote and provide assistance for the County Cooperative Extension programs dealing with pesticide use and disposal by both farmers and residential homeowners.	PSCE, NRCS, CD, BP, PDA, NPO	PSCE, PDA	1	
	Promote the FarmASyst and HomeASyst (household hazardous waste) programs dealing with safe management of pesticides.	PSCE, CD, PDA		1	
	Provide homeowner education on application of herbicides/pesticides in their own yard.	CD, BP, CBF, PSCE	PSCE	1	
	Locate funding to defray costs of collection programs.	CD, PSCE, CRC, JCWP		2	
	Promote and provide assistance to local collection/recycling programs.	CD, CP, Munic, NPO's	DEP	2	
Streambank Fencing				H	Watershed-Wide
	Promote existing streambank fencing programs and provide assistance for new streambank fencing projects.	DEP, BP, CD, USFWS, NRCS, CBF, PGC, BF, YCC, DCNR, PSCE	CD, BP, USFWS, CBF, DU, DEP, PGC, DCNR	1	Priority areas- Kish Valley, Yellow Creek, Clover Creek
	Provide education on streambank fencing and the programs available. Explain liability, easements, etc.	DEP, BP, CD, USFWS, NRCS, CBF, YCC, DCNR, PSCE		1	