## **Geoprocessing Tools in ArcGIS 9.1 Extensions**

The tools listed on this page belong to optional ArcGIS extensions. If you have a license to use a particular extension, all of its tools are available regardless of the license level of ArcGIS® Desktop (ArcView®, ArcEditor®, ArcInfo®) you are using.

Tool available at ArcGIS 9.0 and 9.1 X

New tool introduced at ArcGIS 9.1 ✓

(AICVIEW, AICEUROI, AICIIIO) you are using.		New tool introduced at Arcuis 9.1				·
Toolbox \ Toolset	Tool	Geostatistical Analyst	Data Interoperability	Network Analyst	3D Analyst	Spatial Analyst
Geostatistical Analyst Tools						
Geostatictical Analyst Tools	GA Layer To Grid	Х				
Total Geostatistical Analyst Tools		1				
Data Interoperability Tools						
Data Interoperability Tools	Quick Import		Х			
Data Interoperability Tools	Quick Export		X			
Total Data Interoperability Tools			2			
Network Analyst Tools						
Network Analyst \ Analysis	Add Field to Analysis Layer			1		
Network Analyst \ Analysis	Add Locations			1		
Network Analyst \ Analysis	Calculate Locations			1		
Network Analyst \ Analysis	Directions			✓		
Network Analyst \ Analysis	Make Closest Facility Layer			✓		
Network Analyst \ Analysis	Make OD Cost Matrix Layer			✓		
Network Analyst \ Analysis	Make Route Layer			✓		
Network Analyst \ Analysis	Make Service Area Layer			1		
Network Analyst \ Analysis	Solve			1		
Network Analyst \ NetworkDataset	Build Network			1		
Network Analyst \ Turn feature class	Create Turn Feature Class			1		
Network Analyst \ Turn feature class	Increase Maximum Edges			1		
Network Analyst \ Turn feature class	Populate Alternate ID Fields			1		
Network Analyst \ Turn feature class	Turn Table To Turn Feature Class			✓		
Network Analyst \ Turn feature class	Update by Alternate ID Fields			✓		
Network Analyst \ Turn feature class	Update by Geometry			✓		
Total Network Analyst Tools				16		
3D Analyst Tools						
3D Analyst \ Conversion	Raster to TIN				Х	
3D Analyst \ Conversion	TIN Domain				Х	
3D Analyst \ Conversion	TIN Edge				Х	
3D Analyst \ Conversion	TIN Node				Х	
3D Analyst \ Conversion	TIN Polygon Tag				Х	
3D Analyst \ Conversion	TIN to Raster				Х	
3D Analyst \ Conversion	TIN Triangle				Х	
3D Analyst \ Functional Surface	Interpolate Shape				Х	





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Tool available at ArcGIS 9.0 and 9.1	Х
New tool introduced at ArcGIS 9.1	✓

Toolbox \ Toolset	Tool	Geostatistical Analyst	Data Interoperability	Network Analyst	3D Analyst	Spatial Analyst
3D Analyst Tools (Continued)						
3D Analyst \ Functional Surface	Line Of Sight				Х	
3D Analyst \ Functional Surface	Surface Length				Х	
3D Analyst \ Functional Surface	Surface Spot				Х	
3D Analyst \ Functional Surface	Surface Volume				Х	
3D Analyst \ Raster Interpolation	IDW				Х	
3D Analyst \ Raster Interpolation	Kriging				Х	
3D Analyst \ Raster Interpolation	Natural Neighbor				Х	
3D Analyst \ Raster Interpolation	Spline				Х	
3D Analyst \ Raster Interpolation	Topo To Raster				Х	
3D Analyst \ Raster Interpolation	Topo To Raster By File				Х	
3D Analyst \ Raster Interpolation	Trend				Х	
3D Analyst \ Raster Math	Divide				Х	
3D Analyst \ Raster Math	Float				Х	
3D Analyst \ Raster Math	Int				Х	
3D Analyst \ Raster Math	Minus				Х	
3D Analyst \ Raster Math	Plus				Х	
3D Analyst \ Raster Math	Times				Х	
3D Analyst \ Raster Reclass	Lookup				Х	
3D Analyst \ Raster Reclass	Reclass by ASCII file				Х	
3D Analyst \ Raster Reclass	Reclass by Table				Х	
3D Analyst \ Raster Reclass	Reclassify				Х	
3D Analyst \ Raster Reclass	Slice				Х	
3D Analyst \ Raster Surface	Aspect				Х	
3D Analyst \ Raster Surface	Contour				Х	
3D Analyst \ Raster Surface	Contour List				Х	
3D Analyst \ Raster Surface	Curvature				Х	
3D Analyst \ Raster Surface	Cut/Fill				Х	
3D Analyst \ Raster Surface	Hillshade				Х	
3D Analyst \ Raster Surface	Observer Points				Х	
3D Analyst \ Raster Surface	Slope				Х	
3D Analyst \ Raster Surface	Viewshed				Х	
3D Analyst \ TIN Creation	Create TIN				Х	
3D Analyst \ TIN Creation	Edit TIN				Х	
3D Analyst \ TIN Surface	Interpolate Polygon to Multipatch				Х	
3D Analyst \ TIN Surface	TIN Aspect				Х	
3D Analyst \ TIN Surface	TIN Contour				Х	
3D Analyst \ TIN Surface	TIN Slope				Х	
Total 3D Analyst Tools					45	

Tool available at ArcGIS 9.0 and 9.1	Х
New tool introduced at ArcGIS 9.1	✓

Toolbox \ Toolset	Tool	Geostatistical Analyst	Data Interoperability	Network Analyst	3D Analyst	Spatial Analyst
Spatial Analyst Tools						
Spatial Analyst \ Conditional	Con					Х
Spatial Analyst \ Conditional	Pick					Х
Spatial Analyst \ Conditional	Set Null					Х
Spatial Analyst \ Density	Kernel Density					Х
Spatial Analyst \ Density	Line Density					Х
Spatial Analyst \ Density	Point Density					Х
Spatial Analyst \ Distance	Corridor					Х
Spatial Analyst \ Distance	Cost Allocation					Х
Spatial Analyst \ Distance	Cost Back Link					Х
Spatial Analyst \ Distance	Cost Distance					Х
Spatial Analyst \ Distance	Cost Path					Х
Spatial Analyst \ Distance	Euclidean Allocation					Х
Spatial Analyst \ Distance	Euclidean Direction					Х
Spatial Analyst \ Distance	Euclidean Distance					Х
Spatial Analyst \ Distance	Path Distance					Х
Spatial Analyst \ Distance	Path Distance Allocation					Х
Spatial Analyst \ Distance	Path Distance Back Link					Х
Spatial Analyst \ Extraction	Extract by Attributes					Х
Spatial Analyst \ Extraction	Extract by Circle					Х
Spatial Analyst \ Extraction	Extract by Mask					Х
Spatial Analyst \ Extraction	Extract by Points					Х
Spatial Analyst \ Extraction	Extract by Polygon					Х
Spatial Analyst \ Extraction	Extract by Retangle					Х
Spatial Analyst \ Extraction	Extract Values To Points					Х
Spatial Analyst \ Extraction	Sample					Х
Spatial Analyst \ Generalization	Aggregate					Х
Spatial Analyst \ Generalization	Boundary Clean					Х
Spatial Analyst \ Generalization	Expand					Х
Spatial Analyst \ Generalization	Majority Filter					Х
Spatial Analyst \ Generalization	Nibble					Х
Spatial Analyst \ Generalization	Region Group					Х
Spatial Analyst \ Generalization	Shrink					X
Spatial Analyst \ Generalization	Thin					X
Spatial Analyst \ Groundwater	Darcy Flow					X
Spatial Analyst \ Groundwater	Darcy Velocity					X
Spatial Analyst \ Groundwater	Particle Track					Х
Spatial Analyst \ Groundwater	Porous Puff					Χ

Tool available at ArcGIS 9.0 and 9.1	Х
New tool introduced at ArcGIS 9.1	✓

Toolbox \ Toolset	Tool	Geostatistical Analyst	Data Interoperability	Network Analyst	3D Analyst	Spatial Analyst
Spatial Analyst Tools (Continued)						
Spatial Analyst \ Hydrology	Basin					Х
Spatial Analyst \ Hydrology	Fill					Х
Spatial Analyst \ Hydrology	Flow Accumulation					Х
Spatial Analyst \ Hydrology	Flow Direction					Х
Spatial Analyst \ Hydrology	Flow Length					Х
Spatial Analyst \ Hydrology	Sink					Х
Spatial Analyst \ Hydrology	Snap Pour Point					Х
Spatial Analyst \ Hydrology	Stream Link					Х
Spatial Analyst \ Hydrology	Stream Order					Х
Spatial Analyst \ Hydrology	Stream To Feature					Х
Spatial Analyst \ Hydrology	Watershed					Х
Spatial Analyst \ Interpolation	IDW					Х
Spatial Analyst \ Interpolation	Kriging					Х
Spatial Analyst \ Interpolation	Natural Neighbor					Х
Spatial Analyst \ Interpolation	Spline					Х
Spatial Analyst \ Interpolation	Topo To Raster					Х
Spatial Analyst \ Interpolation	Topo To Raster By File					Х
Spatial Analyst \ Interpolation	Trend					Х
Spatial Analyst \ Local	Cell Statistics					Х
Spatial Analyst \ Local	Combine					Х
Spatial Analyst \ Local	Equal To Frequency					Х
Spatial Analyst \ Local	Greater Than Frequency					Х
Spatial Analyst \ Local	Highest Position					Х
Spatial Analyst \ Local	Less Than Frequency					Х
Spatial Analyst \ Local	Lowest Position					Х
Spatial Analyst \ Local	Popularity					Х
Spatial Analyst \ Local	Rank					Х
Spatial Analyst \ Map Algebra	Multi Output Map Algebra					Х
Spatial Analyst \ Map Algebra	Single Output Map Algebra					Х
Spatial Analyst \ Math	Abs					Х
Spatial Analyst \ Math	Divide					Х
Spatial Analyst \ Math	Exp					Х
Spatial Analyst \ Math	Exp10					Х
Spatial Analyst \ Math	Exp2					Х
Spatial Analyst \ Math	Float					Х
Spatial Analyst \ Math	Int					Х
Spatial Analyst \ Math	Ln					Х

Tool available at ArcGIS 9.0 and 9.1	Χ
New tool introduced at ArcGIS 9.1	✓

Toolbox \ Toolset	Tool	Geostatistical Analyst	Data Interoperability	Network Analyst	3D Analyst	Spatial Analyst
Spatial Analyst Tools (Continued)						
Spatial Analyst \ Math	Log10					Х
Spatial Analyst \ Math	Log2					Х
Spatial Analyst \ Math	Minus					Х
Spatial Analyst \ Math	Mod					Х
Spatial Analyst \ Math	Negate					Х
Spatial Analyst \ Math	Plus					Х
Spatial Analyst \ Math	Power					Х
Spatial Analyst \ Math	Round Down					Х
Spatial Analyst \ Math	Round Up					Х
Spatial Analyst \ Math	Square					Х
Spatial Analyst \ Math	Square Root					Х
Spatial Analyst \ Math	Times					Х
Spatial Analyst \ Math \ Bitwise	Bitwise And					Х
Spatial Analyst \ Math \ Bitwise	Bitwise Left Shift					Х
Spatial Analyst \ Math \ Bitwise	Bitwise Not					Х
Spatial Analyst \ Math \ Bitwise	Bitwise Or					Х
Spatial Analyst \ Math \ Bitwise	Bitwise Right Shift					Х
Spatial Analyst \ Math \ Bitwise	Bitwise XOr					Х
Spatial Analyst \ Math \ Logical	Boolean And					Х
Spatial Analyst \ Math \ Logical	Boolean Not					Х
Spatial Analyst \ Math \ Logical	Boolean Or					Х
Spatial Analyst \ Math \ Logical	Boolean XOr					Х
Spatial Analyst \ Math \ Logical	Combinatorial And					Х
Spatial Analyst \ Math \ Logical	Combinatorial Or					Х
Spatial Analyst \ Math \ Logical	Combinatorial XOr					Х
Spatial Analyst \ Math \ Logical	Equal To					X
Spatial Analyst \ Math \ Logical	Greater Than					X
Spatial Analyst \ Math \ Logical	Greater Than Equal					X
Spatial Analyst \ Math \ Logical	Is Null					X
Spatial Analyst \ Math \ Logical	Less Than					X
Spatial Analyst \ Math \ Logical	Less Than Equal					X
Spatial Analyst \ Math \ Logical	Not equal					X
Spatial Analyst \ Math \ Logical	Test					X
Spatial Analyst \ Math \ Trigonometric	ACos					X
Spatial Analyst \ Math \ Trigonometric	ACosH					X
Spatial Analyst \ Math \ Trigonometric	ASin					X
Spatial Analyst \ Math \ Trigonometric	ASinH					Х

Tool available at ArcGIS 9.0 and 9.1	Х
New tool introduced at ArcGIS 9.1	✓

Toolbox \ Toolset	Tool	Geostatistical Analyst	Data Interoperability	Network Analyst	3D Analyst	Spatial Analyst
Spatial Analyst Tools (Continued)						
Spatial Analyst \ Math \ Trigonometric	ATan					Х
Spatial Analyst \ Math \ Trigonometric	ATan2					Х
Spatial Analyst \ Math \ Trigonometric	ATanH					Х
Spatial Analyst \ Math \ Trigonometric	Cos					Х
Spatial Analyst \ Math \ Trigonometric	CosH					Х
Spatial Analyst \ Math \ Trigonometric	Sin					Х
Spatial Analyst \ Math \ Trigonometric	SinH					Х
Spatial Analyst \ Math \ Trigonometric	Tan					Х
Spatial Analyst \ Math \ Trigonometric	TanH					Х
Spatial Analyst \ Multivariate	Band Collection Statistics					Х
Spatial Analyst \ Multivariate	Class Probability					Х
Spatial Analyst \ Multivariate	Create Signatures					Х
Spatial Analyst \ Multivariate	Dendrogram					Х
Spatial Analyst \ Multivariate	Edit Signatures					Х
Spatial Analyst \ Multivariate	Iso Cluster					Х
Spatial Analyst \ Multivariate	Maximum Likelihood Classification					Х
Spatial Analyst \ Multivariate	Principal Components					Х
Spatial Analyst \ Neighborhood	Block statistics					Х
Spatial Analyst \ Neighborhood	Filter					Х
Spatial Analyst \ Neighborhood	Focal Flow					Х
Spatial Analyst \ Neighborhood	Focal Statistics					Х
Spatial Analyst \ Neighborhood	Line Statistics					Х
Spatial Analyst \ Neighborhood	Point Statistics					Х
Spatial Analyst \ Overlay	Weighted Overlay					Х
Spatial Analyst \ Raster Creation	Create Constant Raster					Х
Spatial Analyst \ Raster Creation	Create Normal Raster					Х
Spatial Analyst \ Raster Creation	Create Random Raster					Х
Spatial Analyst \ Reclass	Lookup					Х
Spatial Analyst \ Reclass	Reclass by ASCII File					Х
Spatial Analyst \ Reclass	Reclass by Table					Х
Spatial Analyst \ Reclass	Reclassify					Х
Spatial Analyst \ Reclass	Slice					Х
Spatial Analyst \ Surface	Aspect					Х
Spatial Analyst \ Surface	Contour					Х
Spatial Analyst \ Surface	Contour List					Х
Spatial Analyst \ Surface	Curvature					Х
Spatial Analyst \ Surface	Cut/Fill					Х

Tool available at ArcGIS 9.0 and 9.1	Х
New tool introduced at ArcGIS 9.1	✓

(Arcview, Arceditor, Arcinto) you are using.			New tool introduced at ArcGIS 9.1			
Toolbox \ Toolset	Tool	Geostatistical Analyst	Data Interoperability	Network Analyst	3D Analyst	Spatial Analys
Spatial Analyst Tools (Continued)						
Spatial Analyst \ Surface	Hillshade					Х
Spatial Analyst \ Surface	Observer Points					Х
Spatial Analyst \ Surface	Slope					Х
Spatial Analyst \ Surface	Viewshed					Х
Spatial Analyst \ Zonal	Tabulate Area					Х
Spatial Analyst \ Zonal	Zonal Fill					Х
Spatial Analyst \ Zonal	Zonal Geometry					Х
Spatial Analyst \ Zonal	Zonal Geometry as Table					Х
Spatial Analyst \ Zonal	Zonal Statistics					Х
Spatial Analyst \ Zonal	Zonal Statistics as Table					Х
Total Spatial Analyst Tools					158	
Summary						
Geoprocessing Tools	Geostatistical Analyst	1				
	Data Interoperability		2			
	Network Analyst			16		
	3D Analyst				45	
	Spatial Analyst					158
Total Geoprocessing Tools					222	



