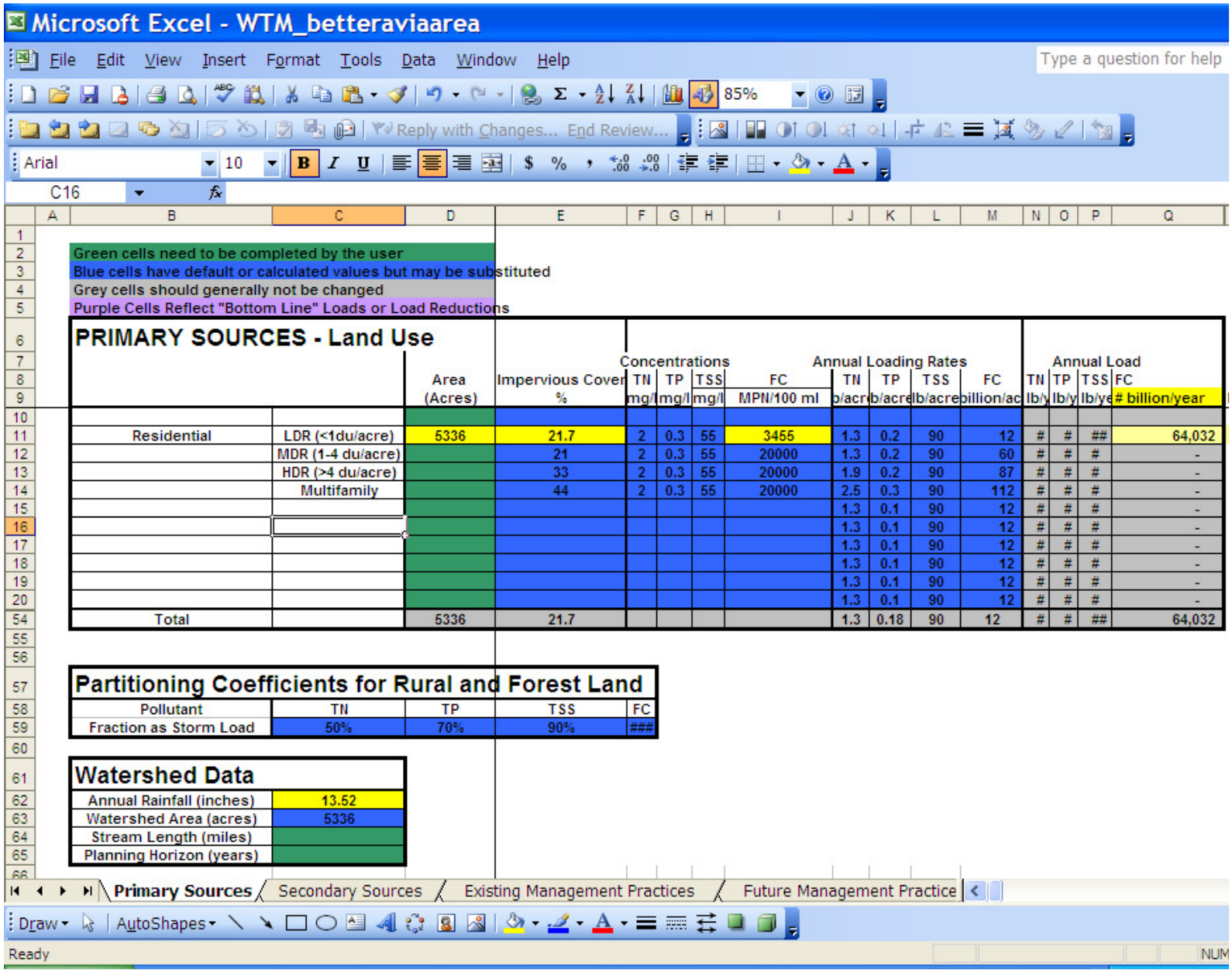
Appendix F - Watershed Treatment Model (WTM)



Microsoft Excel - WTM_betteraviaarea

Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions

PRIMARY SOURCES - Land Use

		Area (Acres)	Impervious Cover %	Concentrations TN mg/l	TP mg/l	TSS mg/l	FC MPN/100 ml	Annual Loading Rates TN lb/acr	TP lb/acre	TSS lb/acre	FC billion/ac	Annual Load TN lb/y	TP lb/y	TSS lb/ye	FC # billion/year
Residential	LDR (<1du/acre)	5336	21.7	2	0.3	55	3455	1.3	0.2	90	12	#	#	##	64,032
	MDR (1-4 du/acre)		21	2	0.3	55	20000	1.3	0.2	90	60	#	#	#	-
	HDR (>4 du/acre)		33	2	0.3	55	20000	1.9	0.2	90	87	#	#	#	-
	Multifamily		44	2	0.3	55	20000	2.5	0.3	90	112	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
Total		5336	21.7					1.3	0.18	90	12	#	#	##	64,032

Partitioning Coefficients for Rural and Forest Land

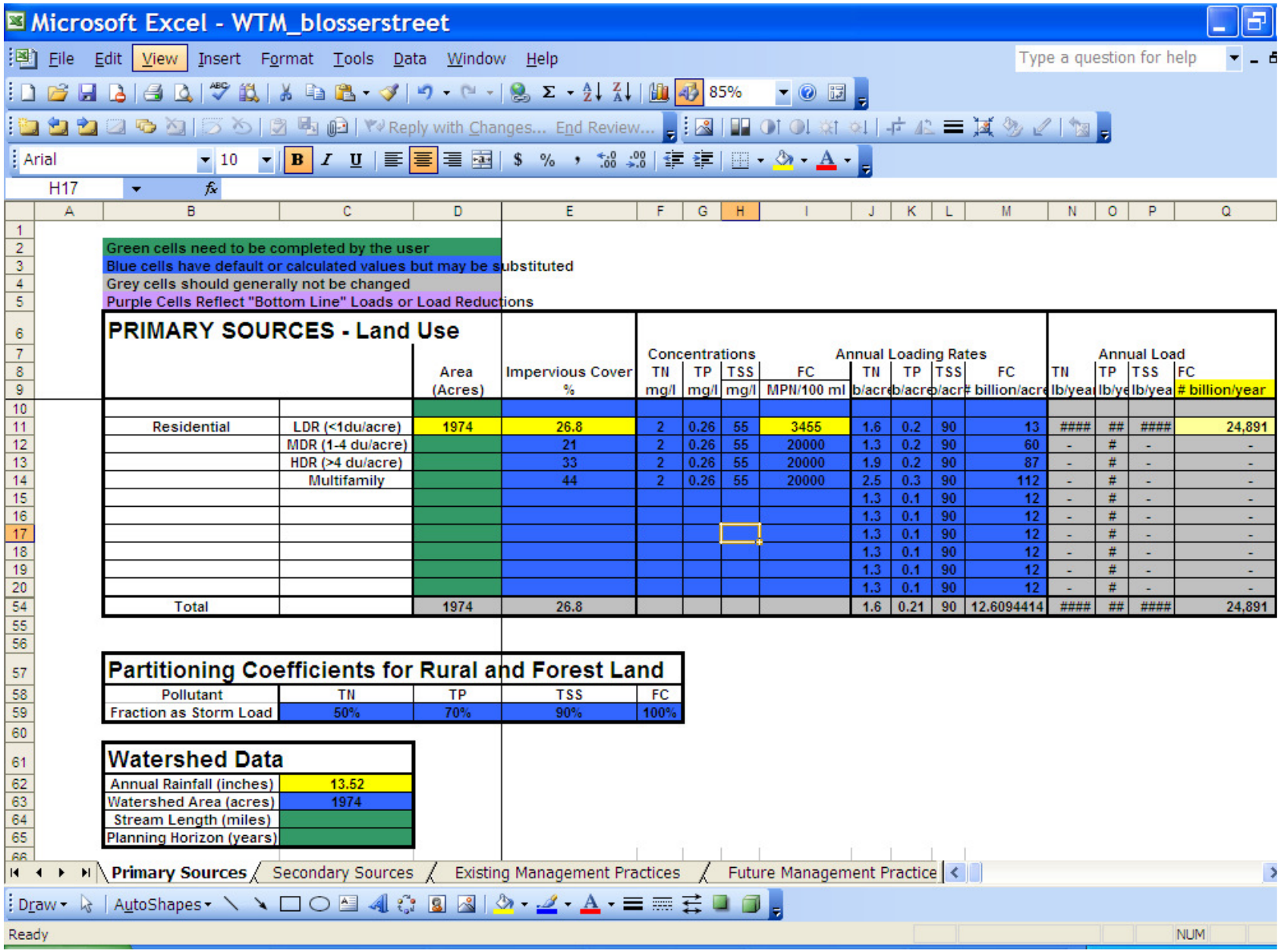
Pollutant	TN	TP	TSS	FC
Fraction as Storm Load	50%	70%	90%	###

Watershed Data

Annual Rainfall (inches)	13.52
Watershed Area (acres)	5336
Stream Length (miles)	
Planning Horizon (years)	

Primary Sources | Secondary Sources | Existing Management Practices | Future Management Practice

Ready



Microsoft Excel - WTM_blosserstreet

Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions

PRIMARY SOURCES - Land Use

		Area (Acres)	Impervious Cover %	Concentrations TN mg/l	TP mg/l	TSS mg/l	FC MPN/100 ml	Annual Loading Rates TN lb/acre	TP lb/acre	TSS lb/acre	FC # billion/acre	Annual Load TN lb/year	TP lb/year	TSS lb/year	FC # billion/year
Residential	LDR (<1du/acre)	1974	26.8	2	0.26	55	3455	1.6	0.2	90	13	####	##	####	24,891
	MDR (1-4 du/acre)		21	2	0.26	55	20000	1.3	0.2	90	60	-	#	-	-
	HDR (>4 du/acre)		33	2	0.26	55	20000	1.9	0.2	90	87	-	#	-	-
	Multifamily		44	2	0.26	55	20000	2.5	0.3	90	112	-	#	-	-
								1.3	0.1	90	12	-	#	-	-
								1.3	0.1	90	12	-	#	-	-
								1.3	0.1	90	12	-	#	-	-
								1.3	0.1	90	12	-	#	-	-
								1.3	0.1	90	12	-	#	-	-
								1.3	0.1	90	12	-	#	-	-
Total		1974	26.8					1.6	0.21	90	12.6094414	####	##	####	24,891

Partitioning Coefficients for Rural and Forest Land

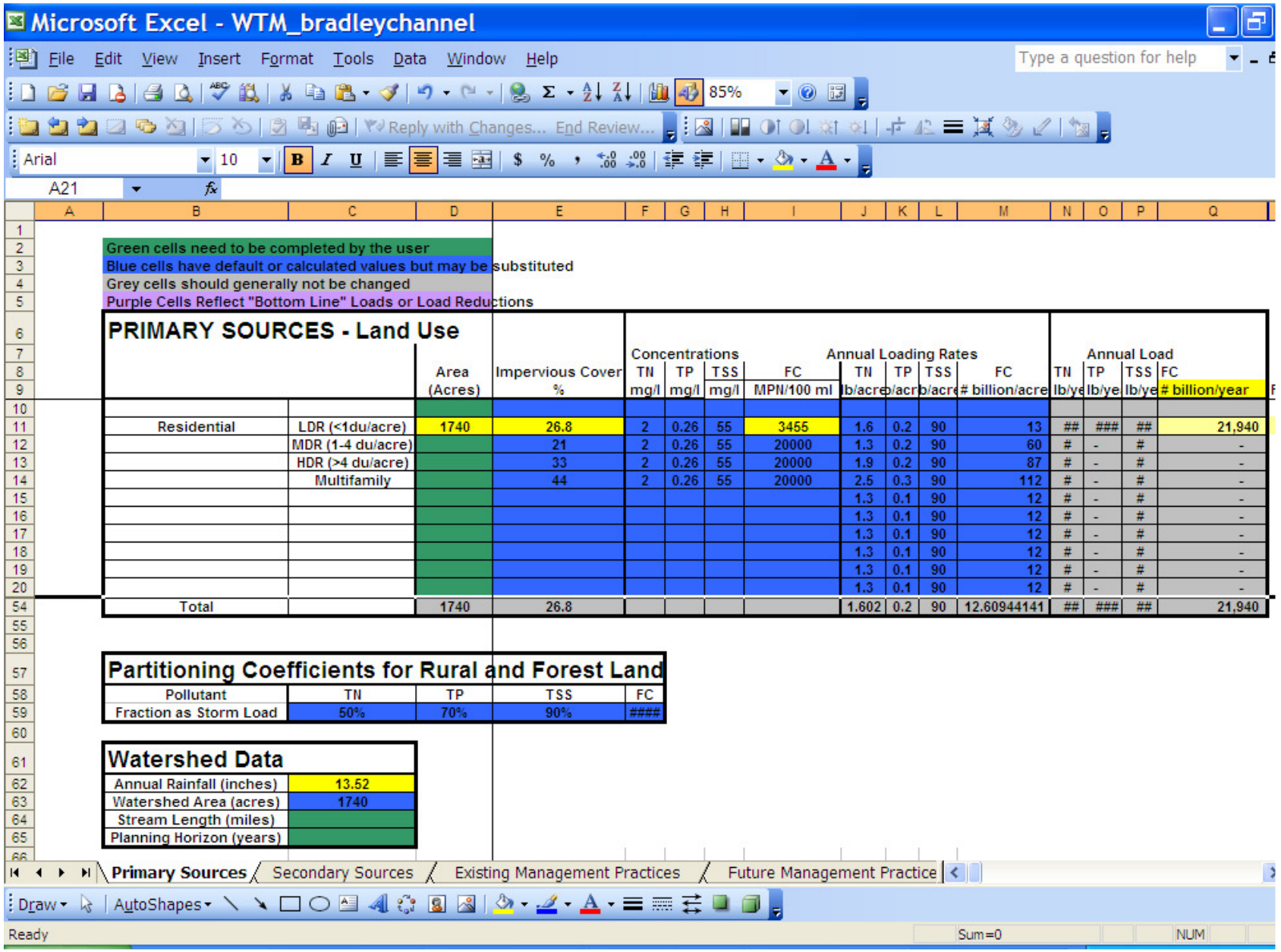
Pollutant	TN	TP	TSS	FC
Fraction as Storm Load	50%	70%	90%	100%

Watershed Data

Annual Rainfall (inches)	13.52
Watershed Area (acres)	1974
Stream Length (miles)	
Planning Horizon (years)	

Primary Sources | Secondary Sources | Existing Management Practices | Future Management Practice

Ready



Microsoft Excel - WTM_bradleychannel

Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions

PRIMARY SOURCES - Land Use

		Area (Acres)	Impervious Cover %	Concentrations TN mg/l	TP mg/l	TSS mg/l	FC MPN/100 ml	Annual Loading Rates TN lb/acre	TP lb/acr	TSS lb/acr	FC # billion/acre	Annual Load TN lb/ye	TP lb/ye	TSS lb/ye	FC # billion/year
Residential	LDR (<1du/acre)	1740	26.8	2	0.26	55	3455	1.6	0.2	90	13	##	###	##	21,940
	MDR (1-4 du/acre)		21	2	0.26	55	20000	1.3	0.2	90	60	#	-	#	-
	HDR (>4 du/acre)		33	2	0.26	55	20000	1.9	0.2	90	87	#	-	#	-
	Multifamily		44	2	0.26	55	20000	2.5	0.3	90	112	#	-	#	-
								1.3	0.1	90	12	#	-	#	-
								1.3	0.1	90	12	#	-	#	-
								1.3	0.1	90	12	#	-	#	-
								1.3	0.1	90	12	#	-	#	-
								1.3	0.1	90	12	#	-	#	-
								1.3	0.1	90	12	#	-	#	-
Total		1740	26.8					1.602	0.2	90	12.60944141	##	###	##	21,940

Partitioning Coefficients for Rural and Forest Land

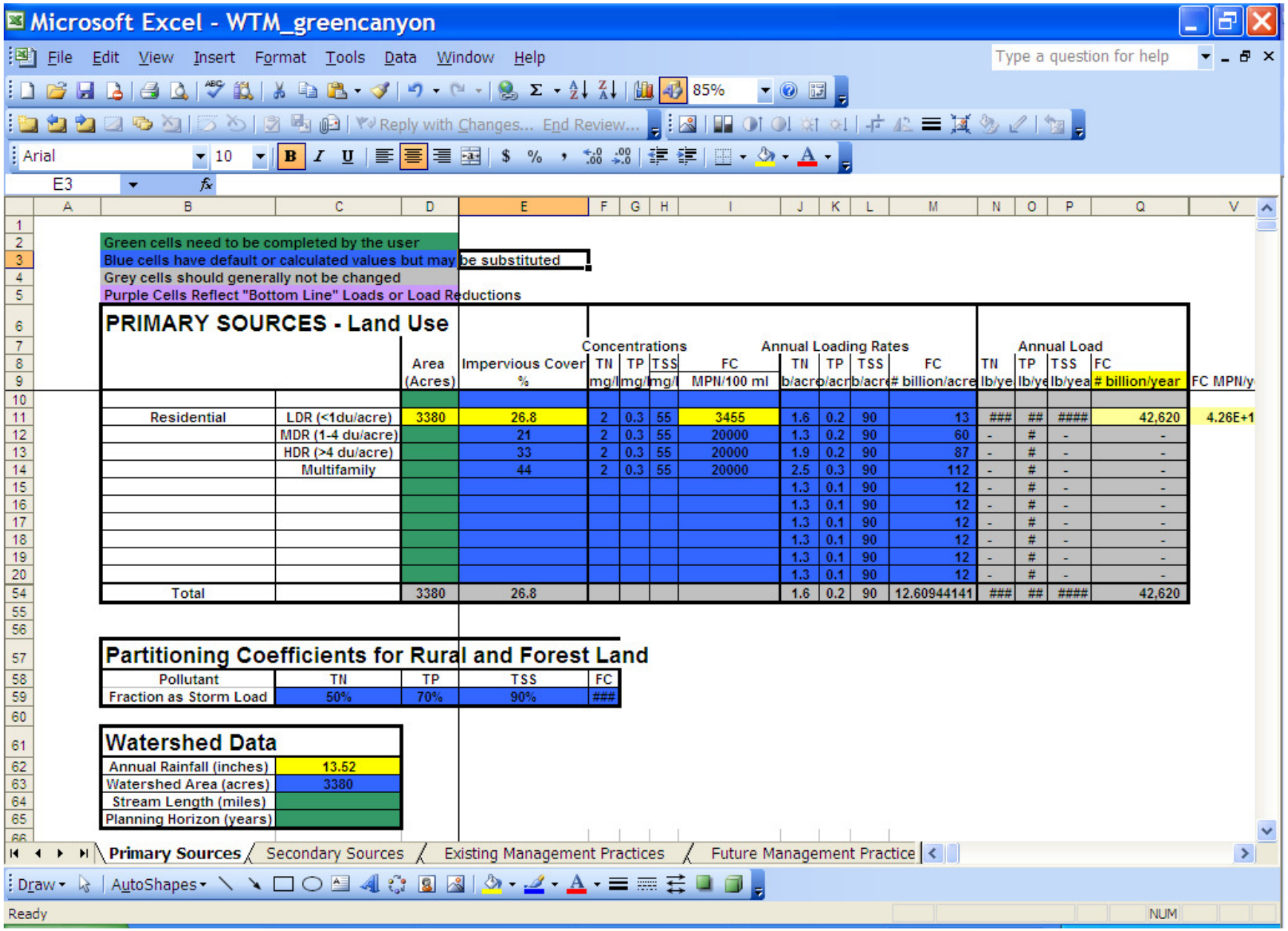
Pollutant	TN	TP	TSS	FC
Fraction as Storm Load	50%	70%	90%	####

Watershed Data

Annual Rainfall (inches)	13.52
Watershed Area (acres)	1740
Stream Length (miles)	
Planning Horizon (years)	

Primary Sources | Secondary Sources | Existing Management Practices | Future Management Practice

Ready



Microsoft Excel - WTM_greencanyon

Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions

PRIMARY SOURCES - Land Use

		Area (Acres)	Impervious Cover %	Concentrations TN mg/l	TP mg/l	TSS mg/l	FC MPN/100 ml	Annual Loading Rates TN lb/acre	TP lb/acre	TSS lb/acre	FC # billion/acre	Annual Load TN lb/year	TP lb/year	TSS lb/year	FC # billion/year	FC MPN/y
Residential	LDR (<1du/acre)	3380	26.8	2	0.3	55	3455	1.6	0.2	90	13	###	##	####	42,620	4.26E+1
	MDR (1-4 du/acre)		21	2	0.3	55	20000	1.3	0.2	90	60	-	#	-	-	
	HDR (>4 du/acre)		33	2	0.3	55	20000	1.9	0.2	90	87	-	#	-	-	
	Multifamily		44	2	0.3	55	20000	2.5	0.3	90	112	-	#	-	-	
								1.3	0.1	90	12	-	#	-	-	
								1.3	0.1	90	12	-	#	-	-	
								1.3	0.1	90	12	-	#	-	-	
								1.3	0.1	90	12	-	#	-	-	
								1.3	0.1	90	12	-	#	-	-	
								1.3	0.1	90	12	-	#	-	-	
Total		3380	26.8					1.6	0.2	90	12.60944141	###	##	####	42,620	

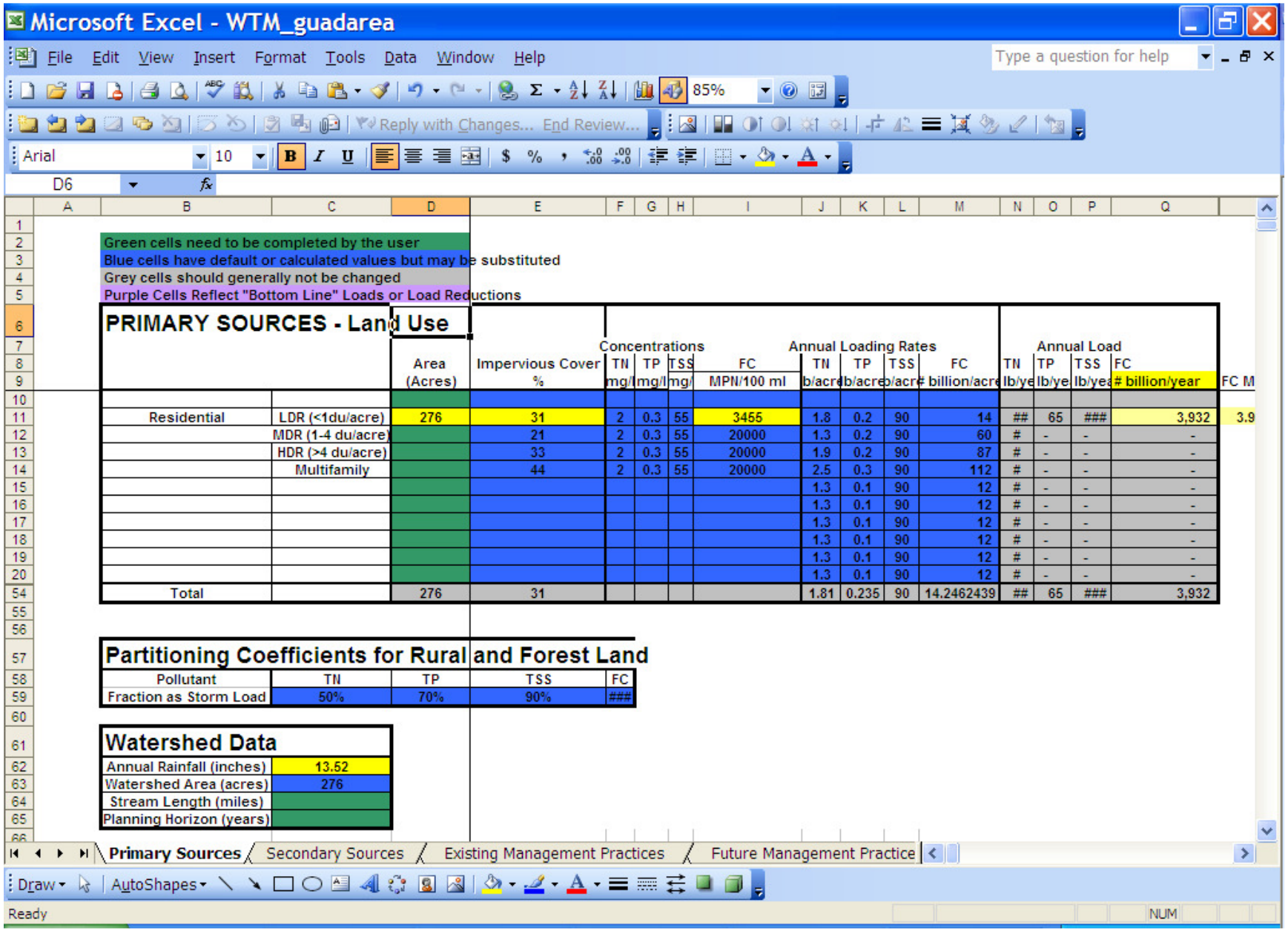
Partitioning Coefficients for Rural and Forest Land

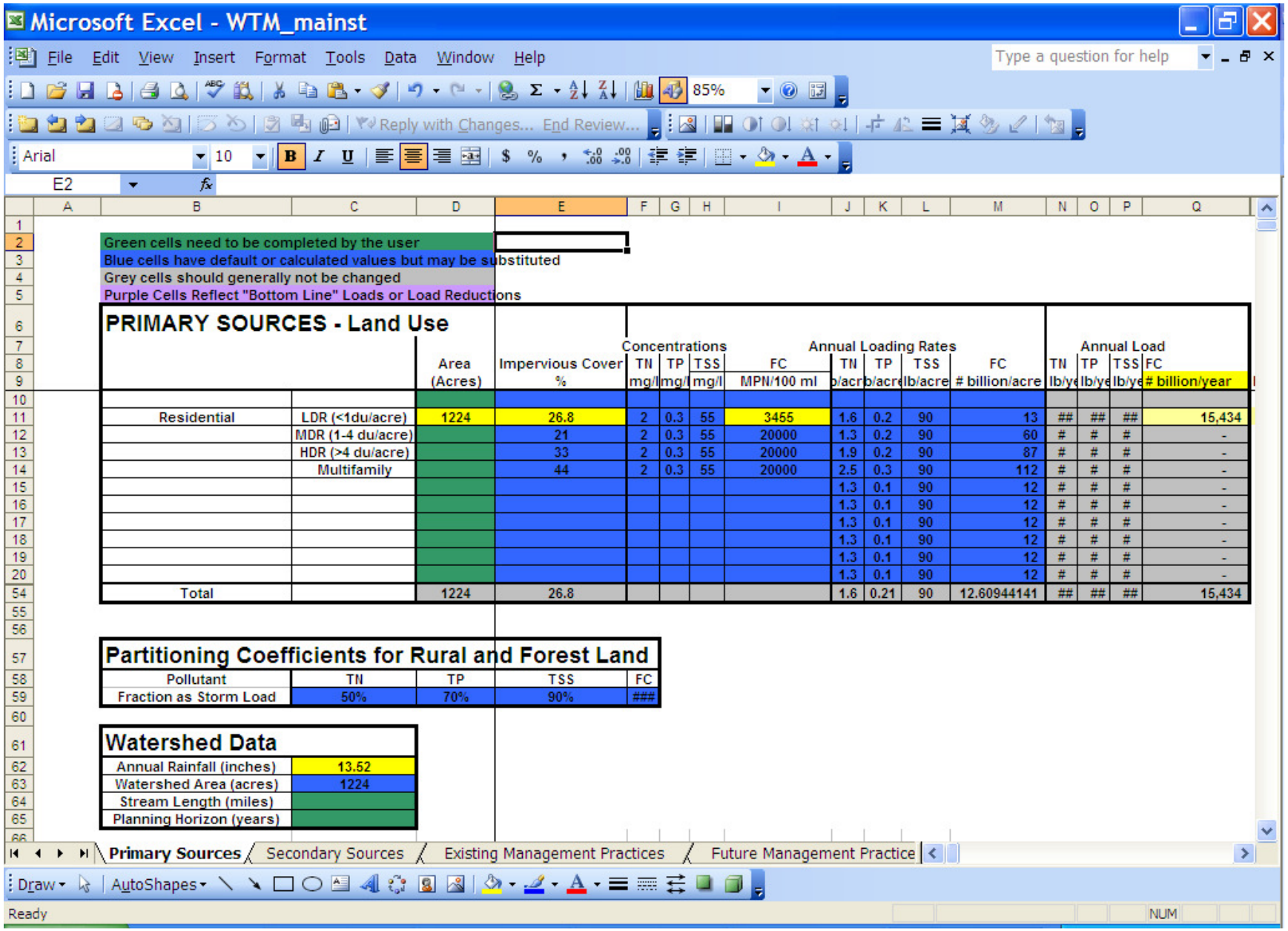
Pollutant	TN	TP	TSS	FC
Fraction as Storm Load	50%	70%	90%	###

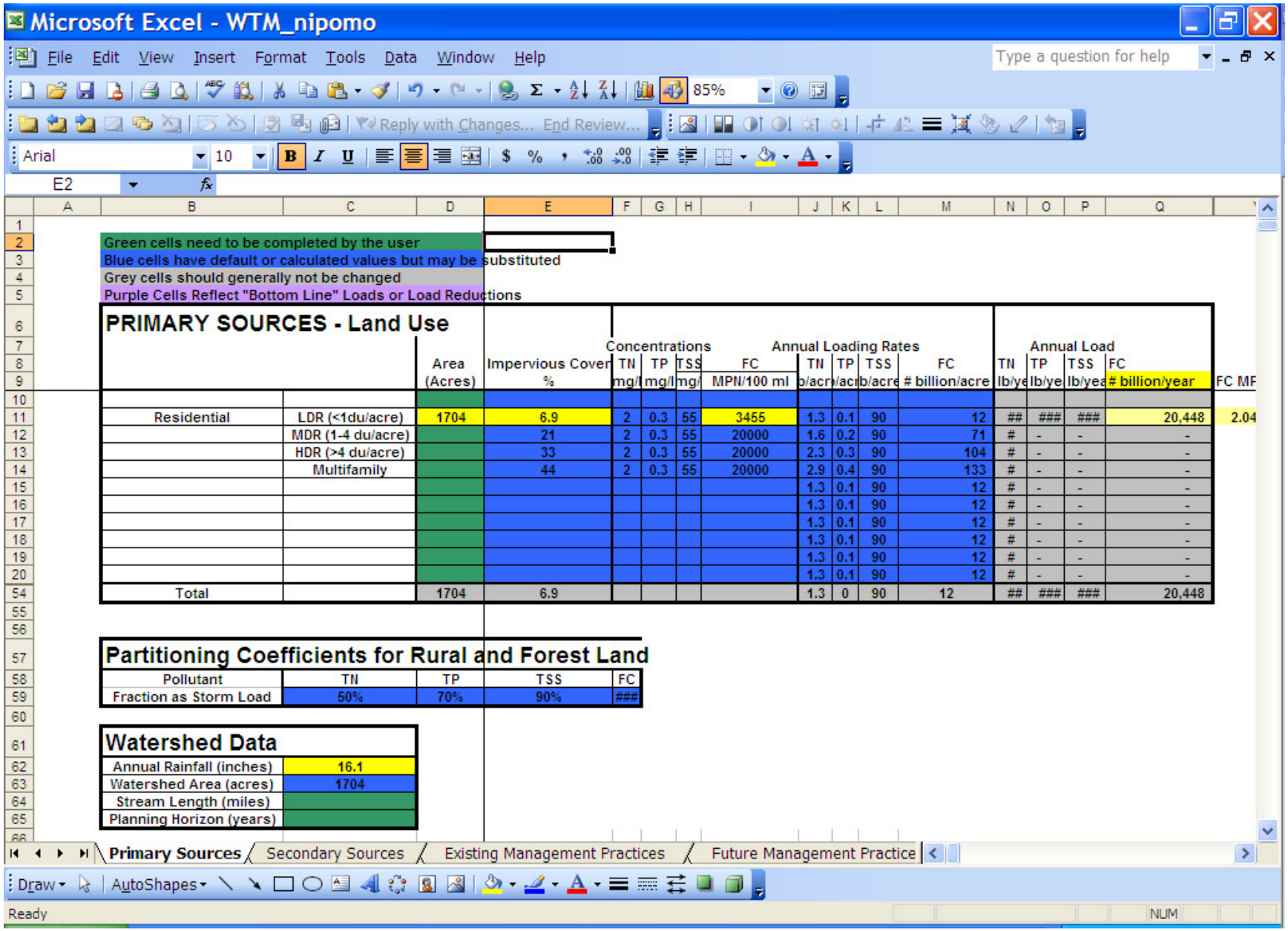
Watershed Data

Annual Rainfall (inches)	13.52
Watershed Area (acres)	3380
Stream Length (miles)	
Planning Horizon (years)	

Primary Sources | Secondary Sources | Existing Management Practices | Future Management Practice


Microsoft Excel - WTM_guadarea
File Edit View Insert Format Tools Data Window Help
Type a question for help
Reply with Changes... End Review...
Arial 10
D6
Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions
PRIMARY SOURCES - Land Use
Concentrations
Annual Loading Rates
Annual Load
Area (Acres)
Impervious Cover %
TN mg/l
TP mg/l
TSS mg/l
FC MPN/100 ml
TN lb/acre
TP lb/acre
TSS lb/acre
FC # billion/acre
TN lb/year
TP lb/year
TSS lb/year
FC # billion/year
Residential
LDR (<1du/acre)
MDR (1-4 du/acre)
HDR (>4 du/acre)
Multifamily
Total
Partitioning Coefficients for Rural and Forest Land
Pollutant
Fraction as Storm Load
TN
TP
TSS
FC
50%
70%
90%
Watershed Data
Annual Rainfall (inches)
13.52
Watershed Area (acres)
276
Stream Length (miles)
Planning Horizon (years)
Primary Sources
Secondary Sources
Existing Management Practices
Future Management Practice
Draw AutoShapes
Ready
NUM


Microsoft Excel - WTM_mainst
File Edit View Insert Format Tools Data Window Help
Type a question for help
Reply with Changes... End Review...
Arial 10
E2
Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions
PRIMARY SOURCES - Land Use
Concentrations
Annual Loading Rates
Annual Load
Area (Acres)
Impervious Cover %
TN mg/l
TP mg/l
TSS mg/l
FC MPN/100 ml
TN lb/acre
TP lb/acre
TSS lb/acre
FC # billion/acre
TN lb/year
TP lb/year
TSS lb/year
FC # billion/year
Residential
LDR (<1du/acre) 1224 26.8 2 0.3 55 3455 1.6 0.2 90 13 ## ## ## 15,434
MDR (1-4 du/acre) 21 2 0.3 55 20000 1.3 0.2 90 60 # # # -
HDR (>4 du/acre) 33 2 0.3 55 20000 1.9 0.2 90 87 # # # -
Multifamily 44 2 0.3 55 20000 2.5 0.3 90 112 # # # -
1.3 0.1 90 12 # # # -
Total 1224 26.8 1.6 0.21 90 12.60944141 ## ## ## 15,434
Partitioning Coefficients for Rural and Forest Land
Pollutant TN TP TSS FC
Fraction as Storm Load 50% 70% 90% ###
Watershed Data
Annual Rainfall (inches) 13.52
Watershed Area (acres) 1224
Stream Length (miles)
Planning Horizon (years)
Primary Sources
Secondary Sources
Existing Management Practices
Future Management Practice
Draw AutoShapes
Ready
NUM



Microsoft Excel - WTM_nipomo

Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions

PRIMARY SOURCES - Land Use

		Area (Acres)	Impervious Cover %	Concentrations TN mg/l	TP mg/l	TSS mg/	FC MPN/100 ml	Annual Loading Rates TN lb/acr	TP lb/acr	TSS lb/acre	FC # billion/acre	Annual Load TN lb/ye	TP lb/ye	TSS lb/yea	FC # billion/year	FC MF
Residential	LDR (<1du/acre)	1704	6.9	2	0.3	55	3455	1.3	0.1	90	12	##	###	###	20,448	2.04
	MDR (1-4 du/acre)		21	2	0.3	55	20000	1.6	0.2	90	71	#	-	-	-	
	HDR (>4 du/acre)		33	2	0.3	55	20000	2.3	0.3	90	104	#	-	-	-	
	Multifamily		44	2	0.3	55	20000	2.9	0.4	90	133	#	-	-	-	
								1.3	0.1	90	12	#	-	-	-	
								1.3	0.1	90	12	#	-	-	-	
								1.3	0.1	90	12	#	-	-	-	
								1.3	0.1	90	12	#	-	-	-	
								1.3	0.1	90	12	#	-	-	-	
								1.3	0.1	90	12	#	-	-	-	
Total		1704	6.9					1.3	0	90	12	##	###	###	20,448	

Partitioning Coefficients for Rural and Forest Land

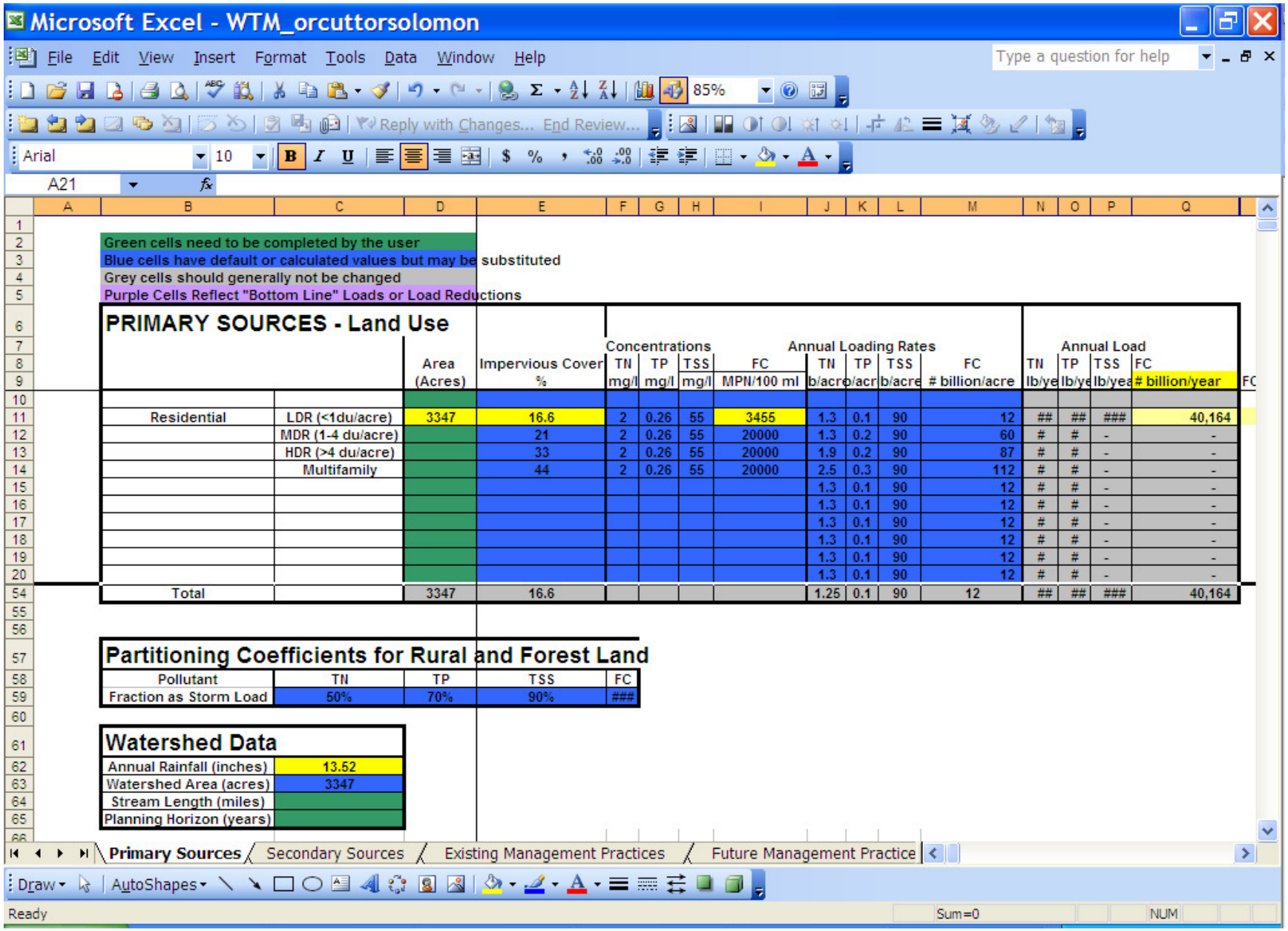
Pollutant	TN	TP	TSS	FC
Fraction as Storm Load	50%	70%	90%	###

Watershed Data

Annual Rainfall (inches)	16.1
Watershed Area (acres)	1704
Stream Length (miles)	
Planning Horizon (years)	

Primary Sources | Secondary Sources | Existing Management Practices | Future Management Practice

Ready



Microsoft Excel - WTM_orcuttorsolomon

Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions

PRIMARY SOURCES - Land Use

		Area (Acres)	Impervious Cover %	Concentrations TN mg/l	TP mg/l	TSS mg/l	FC MPN/100 ml	Annual Loading Rates TN lb/acre	TP lb/acre	TSS lb/acre	FC # billion/acre	Annual Load TN lb/ye	TP lb/ye	TSS lb/yea	FC # billion/year
Residential	LDR (<1du/acre)	3347	16.6	2	0.26	55	3455	1.3	0.1	90	12	##	##	###	40,164
	MDR (1-4 du/acre)		21	2	0.26	55	20000	1.3	0.2	90	60	#	#	-	-
	HDR (>4 du/acre)		33	2	0.26	55	20000	1.9	0.2	90	87	#	#	-	-
	Multifamily		44	2	0.26	55	20000	2.5	0.3	90	112	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
Total		3347	16.6					1.25	0.1	90	12	##	##	###	40,164

Partitioning Coefficients for Rural and Forest Land

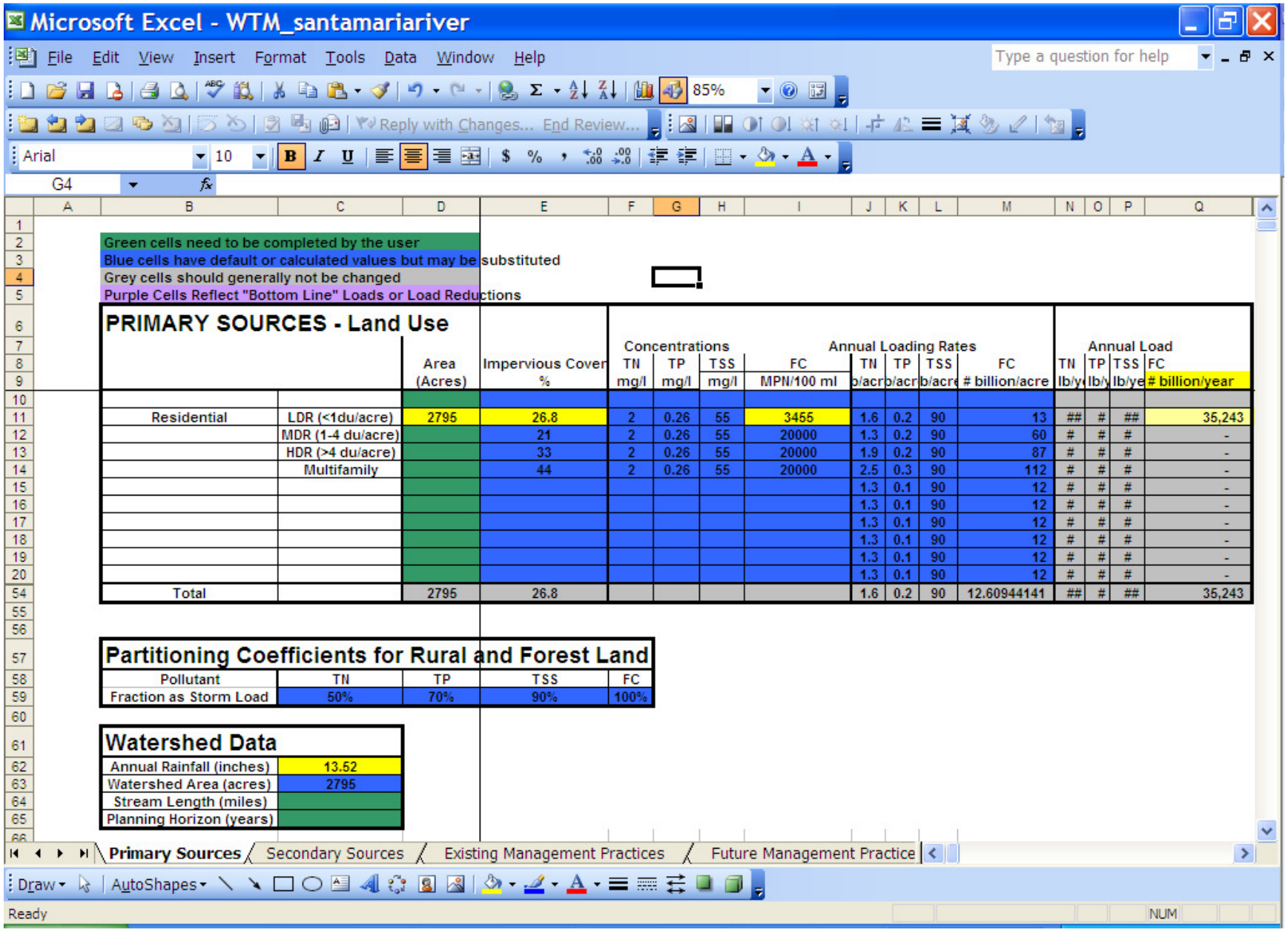
Pollutant	TN	TP	TSS	FC
Fraction as Storm Load	50%	70%	90%	###

Watershed Data

Annual Rainfall (inches)	13.52
Watershed Area (acres)	3347
Stream Length (miles)	
Planning Horizon (years)	

Primary Sources | Secondary Sources | Existing Management Practices | Future Management Practice

Ready



Microsoft Excel - WTM_santamariariver

Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions

PRIMARY SOURCES - Land Use

		Area (Acres)	Impervious Cover %	Concentrations TN mg/l	TP mg/l	TSS mg/l	FC MPN/100 ml	Annual Loading Rates TN lb/acr	TP lb/acr	TSS lb/acre	FC # billion/acre	Annual Load TN lb/y	TP lb/y	TSS lb/ye	FC # billion/year
Residential	LDR (<1du/acre)	2795	26.8	2	0.26	55	3455	1.6	0.2	90	13	##	#	##	35,243
	MDR (1-4 du/acre)		21	2	0.26	55	20000	1.3	0.2	90	60	#	#	#	-
	HDR (>4 du/acre)		33	2	0.26	55	20000	1.9	0.2	90	87	#	#	#	-
	Multifamily		44	2	0.26	55	20000	2.5	0.3	90	112	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
								1.3	0.1	90	12	#	#	#	-
Total		2795	26.8					1.6	0.2	90	12.60944141	##	#	##	35,243

Partitioning Coefficients for Rural and Forest Land

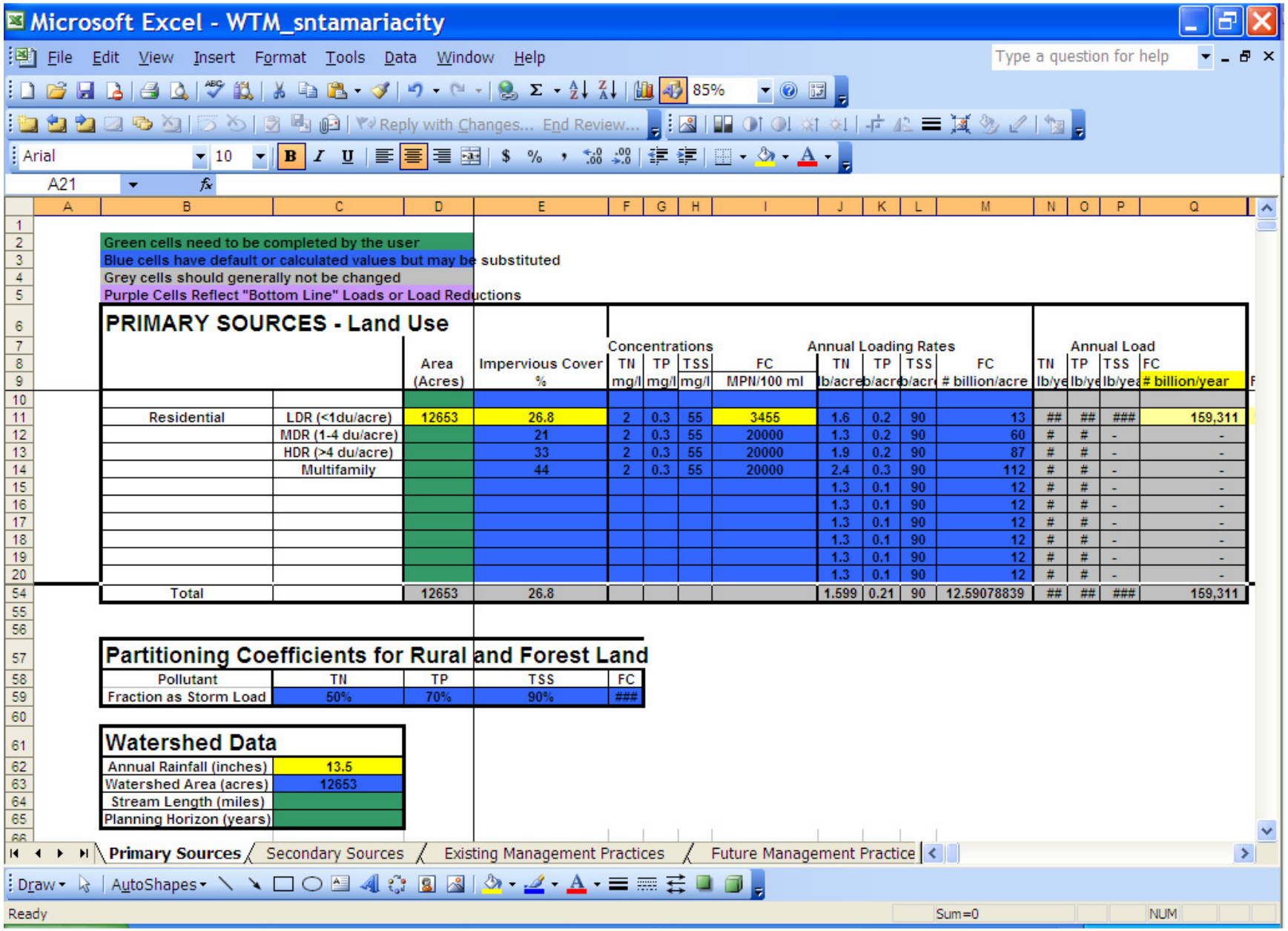
Pollutant	TN	TP	TSS	FC
Fraction as Storm Load	50%	70%	90%	100%

Watershed Data

Annual Rainfall (inches)	13.52
Watershed Area (acres)	2795
Stream Length (miles)	
Planning Horizon (years)	

Primary Sources | Secondary Sources | Existing Management Practices | Future Management Practice

Ready



Microsoft Excel - WTM_sntamariacity

Green cells need to be completed by the user
Blue cells have default or calculated values but may be substituted
Grey cells should generally not be changed
Purple Cells Reflect "Bottom Line" Loads or Load Reductions

PRIMARY SOURCES - Land Use

		Area (Acres)	Impervious Cover %	Concentrations TN mg/l	TP mg/l	TSS mg/l	FC MPN/100 ml	Annual Loading Rates TN lb/acre	TP lb/acre	TSS lb/acr	FC # billion/acre	Annual Load TN lb/ye	TP lb/ye	TSS lb/yea	FC # billion/year
Residential	LDR (<1du/acre)	12653	26.8	2	0.3	55	3455	1.6	0.2	90	13	##	##	###	159,311
	MDR (1-4 du/acre)		21	2	0.3	55	20000	1.3	0.2	90	60	#	#	-	-
	HDR (>4 du/acre)		33	2	0.3	55	20000	1.9	0.2	90	87	#	#	-	-
	Multifamily		44	2	0.3	55	20000	2.4	0.3	90	112	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
								1.3	0.1	90	12	#	#	-	-
Total		12653	26.8					1.599	0.21	90	12.59078839	##	##	###	159,311

Partitioning Coefficients for Rural and Forest Land

Pollutant	TN	TP	TSS	FC
Fraction as Storm Load	50%	70%	90%	###

Watershed Data

Annual Rainfall (inches)	13.5
Watershed Area (acres)	12653
Stream Length (miles)	
Planning Horizon (years)	

Primary Sources | Secondary Sources | Existing Management Practices | Future Management Practice

Ready