File name	Description	Source
_su	Segmented unit features, no attributes	eCognition
		export
_wv	Woody vegetation features, no attributes	eCognition
	(from QB2 using texture, shape, size, NDVI)	export
_water	Digitized water bodies and channels for spatial	Polygon
	queries	feature class
gvEMF	Green vegetation endmember fractions in ESRI .grid	Clipped ENVI
	format; from 20051028 scene subset	export
npvEMF	Non-photosynthetic vegetation endmember fractions	Clipped ENVI
	in ESRI .grid format; from 20051028 scene subset	export
shadeEMF	Shade endmember fractions in ESRI .grid format;	Clipped ENVI
	from 20051028 scene subset	export
LCCS_su	Segmented units classified with Land Cover	Polygon
	Classification System; has gdb representation	feature class
	assigned (Override field)	
	FIELDS:	
	AREA= Segmented unit area (square meters)	
	OvC =Coded value: 0=sparse cover, 1=open cover,	
	2=closed cover	
	SvT=Coded value: 0=herbaceous lifeform	
	dominated, 1=shrub lifeform dominated, 2=tree	
	lifeform dominated	
	PCTTC =proportion of segmented unit that is	
	covered by woody vegetation	
	COVCODE =LCCS code for cover classifier (A12=	
	closed (70+%), A14= open (40-70%), A15= open	
	(40-10%), A17= spase (10-5%), A18= sparse (4-	
	1%))	
	LIFCODE= LCCS code for lifeform classifier (A2=	
	herbaceous, A3= trees, A4=shrubs)	
	LIFNAME = Class name corresponding to dominant	
	lifeform classifier	
	COVNAME= Designation based on LCCS cover	
	classifier (Sparse (4-1%), Sparse (5-9%), Open (10-	
	40%), Open (40-70%), Closed (70+%))	
	CLASSNAME= Full LCCS class name (for	
	symbolizing)	
	RuleID= field for file geodatabase representation	
lifoform	Individual woody vegetation natures factures with	Dolumon
lifeform_wv	Individual woody vegetation polygon features with	Polygon
	extracted endmember fractions (green vegetation,	feature class
	non-photosynthetic vegetation, shade) as well as	(features
	fraction index and 3 experimental fields used to	exported
	evaluate fraction thresholds.	from
	NPV = non-photosynthetic vegetation endmember	eCognition

	T	
	fractions averaged from 20051028 Landsat 5 TM	and values
	scene	extracted in
	SHADE= shade endmember fractions averaged	ArcGIS)
	from 20051028 Landsat 5 TM scene	
	GV = green vegetation endmember fractions	
	averaged from 20051028 Landsat 5 TM scene	
	TCArea= area of individual woody vegetation	
	polygons (used to calculate percent of woody	
	vegetation cover within segmented units)	
	GV_TYPE, SHADE_TYPE, NPV_TYPE, CLASS=	
	experimental fields used to evaluate possible	
	endmember fraction thresholds in relation to	
	dominant lifeform. Did not use in final classification.	
	LIFEFORM= LCCS code for dominant lifeform	
	classifier	
	CLASSNAME= LCCS name for dominant lifeform	
	classifier	
	INDEX= result of weighted endmember fraction	
	index	
	(Index = 0.7*shade + 0.3*green vegetation)	
	SvT= Short coded value for classname (1=shrub,	
	2=tree)	
	,	
proc_vegmask	Polygon feature class used to mask out areas that	Polygon
	are not of interest (not in floodplain, not vegetated).	feature class
	Mask was generated by unsupervised classification	
	of Quickbird mosaic where vegetated classes were	
	exported as ESRI shapefile. Used to clip data for	
	use in eCognition.	
mesma_su	Polygon feature class at segmented unit level that	Polygon
	contains extracted endmember fractions from	feature class
	Multiple Endmember SMA. MESMA fractions	
	generated using same library collected by J.	
	Isherwood. Unprocessed MESMA results also	
	included outside of file geodatabase.	
	AREA= segmented unit area (square meters)	
	COUNT= Landsat 5 TM pixels that intersect	
	individual segmented unit	
	SHADE= average shade fraction within segmented	
	unit	
	var_SHADE= variance of shade fraction within	
	segmented unit	
	SAND = average sand fraction within segmented unit	
	var_SAND= variance of sand fraction within	
	segmented unit	

	segmented unit	
	<pre>var_NPV= variance of non-photosynthetic fraction</pre>	
	within segmented unit	
	GV = average green vegetation fraction within	
	segmented unit	
	var_GV= variance of green vegetation fraction	
	within segmented unit	
mesma_wv	Table that stores MESMA endmember fractions	File
_	extracted at woody vegetation level. Can be joined	geodatabase
	to woody vegetation features.	table
	Mean_SHADE= average shade endmember fraction	10.101.0
	within woody vegetation feature	
	Mean_SAND= average sand endmember fraction	
	within woody vegetation feature	
	Mean_NPV= average non-photosynthetic	
	vegetation endmember fraction within woody	
	vegetation feature	
	Mean_GV= average green vegetation endmember	
	fraction within woody vegetation feature	
	COUNT= count of Landsat 5 TM pixels that	
	intersected with the woody vegetation feature	
	ID = unique ID field used to join to FID of woody	
	vegetation features (_wv feature class)	
val_MESMA_su	Table that stores manually interpreted validation	File
	segmented units and lifeform classification based on	geodatabase
	MESMA fractions. Can join to val_LCCS_pt for	table
	location.	
	FID_1 = unique ID field used to join to FID of	
	val_LCCS_pt	
	AREA= segmented unit area (square meters)	
	REF_OvC = coded value for manually interpreted	
	cover (0=sparse, 1=open, 2=closed)	
	REF_SvT= coded value for manually interpreted	
	dominant lifeform (0=shrub, 1=tree, 2=herbaceous)	
	OvC_1= coded value for single model SMA	
	endmember fraction classification for cover	
	(0=sparse, 1=open, 2=closed). This classification	
	was determined by the proportion of a segmented	
	unit that woody vegetation covers (independent of	
	fraction differences).	
	SvT_1= coded value for single model SMA	
	l endmember fraction classification for dominant	
	endmember fraction classification for dominant lifeform (0=shrub, 1=tree, 2=herbaceous)	
	lifeform (0=shrub, 1=tree, 2=herbaceous)	
	lifeform (0=shrub, 1=tree, 2=herbaceous) MESMA_SvT= coded value for single model SMA	
	lifeform (0=shrub, 1=tree, 2=herbaceous)	

val_woodyveg_pt	Point feature class of segmented unit centroids used to assess accuracy of LCCS classification. N=255 AREA= area of segmented unit (square meters) PCTTC= percent of segmented unit covered by woody vegetation (cover) R_LIFENAM= name of LCCS dominant lifeform class; manually interpreted from Quickbird imagery R_COVNAME= name of LCCS cover class; manually interpreted from Quickbird imagery ROUND= points added in 2 rounds to increase sample size for each unique class combination OvC= coded value for cover classifier (0=sparse, 1=open, 2=closed); manually interpreted from Quickbird imagery SvT= coded value for dominant lifeform classifier (0=herbaceous, 1=shrub, 2=tree); manually interpreted from Quickbird imagery FID_SU= Unique identifier for corresponding segmented unit. Use to join to segmented unit polygon. OvC_1= coded value for cover classification (0=sparse, 1=open, 2=closed) SvT_1= coded value for dominant lifeform classification (0=herbaceous, 1=shrub, 2=tree) COVCODE= LCCS code for cover classifier class (A12= closed (70+%), A14= open (40-70%), A15= open (40-10%), A17= spase (10-5%), A18= sparse (4-1%)) LIFCODE= LCCS code for dominant lifeform classifier class (A2= herbaceous, A3= trees, A4=shrubs) COVNAME= name of LCCS cover class; from hierarchical object-based classification LIFNAME= name of LCCS dominant lifeform class from hierarchical object-based classification CLASSNAME= concatenation of COVNAME and LIFNAME for unique classifier combinations A_SvT= for lifeform: agreement in manually interpreted reference and hierarchical object-based classification; 0= disagreement, 1=agreement A_OvC= for cover: agreement in manually interpreted reference and hierarchical object-based classification; 0= disagreement, 1=agreement Point feature class used to assess the accuracy of	Point feature Class
	the woody vegetation classification. Contains 5,000 points, 425 points are non-woody vegetation/bare	class

	and remainder are woody vegetation.	
	TC= binary field indicating manually interpreted	
	presence of woody vegetation (0=woody vegetation	
	absent, 1= woody vegetation present)	Daintfaatuus
val_vcf_pt	Point feature class storing Landsat VCF values to	Point feature
	manually interpreted cover for segmented units.	class
	SUAREA =area of segmented unit in square meters	
	PCTTC=calculated woody vegetation cover	
	R_LIFENAM=manually interpreted dominant	
	lifeform for segmented unit	
	R_COVNAME=manually interpreted woody	
	vegetation cover for segmented unit	
	CLASSNAME=combined class name from	
	classification (NOT REFERENCE)	
	COVER_AGRE=binary field for agreement between	
	reference cover and mean VCF tree cover	
	(0=disagreement in class (sparse, open, closed)	
	between reference woody vegetation cover and	
	mean tree cover from VCF, 1=agreement in class	
	(sparse, open, closed) between reference woody	
	vegetation cover and mean tree cover from VCF)	
	DIFF =difference between classified cover and	
	meanVCF tree cover (DIFF=PCTTC – meanVCF)	
	VCFmeanOvC= coded value for cover using VCF	
	tree cover (0=sparse, 1=open, 2=closed)	
	R_OvC = coded value for cover using woody	
	vegetation cover classification (0=sparse, 1=open,	
	2=closed)	
vcf_herbaceous	Table storing tree cover (canopy cover*0.8) from	File
	Landsat VCF 2005 and classification-based woody	geodatabase
	vegetation cover for segmented units classified as	table
	dominantly herbaceous (e.g., sparse woody	
	vegetation cover).	
	SU_EMF_FID = FID for corresponding segmented	
	units	
	OvC = coded value for cover classifier (0=sparse)	
	SvT= coded value for dominant lifeform classifier	
	(0=herbaceous)	
	PCTTC = proportion of segmented unit covered by	
	classified woody vegetation	
	SUAREA = area in square meters of the segmented	
	unit	
	meanVCF=mean VCF tree cover within segmented	
	unit	
	minVCF=minimum VCF tree cover cell within	
	segmented unit	

	maxVCF=maximum VCF tree cover cell within	
	segmented unit	
	DIFF =difference between classified cover and	
	meanVCF tree cover (DIFF=PCTTC – meanVCF)	
	minDIFF= difference between classified cover and	
	minVCF tree cover (minDIFF=PCTTC - minVCF)	
	maxDIFF= difference between classified cover and	
	maxVCF tree cover (maxVCF=PCTTC – maxVCF)	
	errMEAN=mean of error reported with Landsat VCF	
	product within segmented unit	
	errSTD=standard deviation of error reported within	
	segmented unit	
	COUNT= VCF cells within segmented unit	
	AREA_1=calculated area of VCF cells within	
	segmented unit	
	RANGE=range in tree cover values of VCF cells	
	within segmented unit	
	VARIETY= count of unique tree cover values of	
	VCF cells within segmented unit	
	MEDIAN= median of tree cover of VCF cells within	
vot obrub	segmented unit	Tile.
vcf_shrub	Table storing tree cover (canopy cover*0.8) from	File
	Landsat VCF 2005 and classification-based woody	geodatabase
	vegetation cover for segmented units classified as	table
	dominated by shrubs.	
	SU_EMF_FID= FID for corresponding segmented	
	units	
	OvC = coded value for cover classifier (1=open,	
	2=closed)	
	SvT= coded value for dominant lifeform classifier	
	(1=shrub)	
	PCTTC= proportion of segmented unit covered by	
	classified woody vegetation	
	SUAREA = area in square meters of the segmented	
	unit	
	meanVCF=mean VCF tree cover within segmented	
	unit	
	minVCF=minimum VCF tree cover cell within	
	segmented unit	
	maxVCF=maximum VCF tree cover cell within	
	segmented unit	
	DIFF =difference between classified cover and	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	meanVCF tree cover (DIFF=PCTTC – meanVCF)	
	minDIFF= difference between classified cover and	

е	naxVCF tree cover (maxVCF=PCTTC – maxVCF) errMEAN=mean of error reported with Landsat VCF	
e Sc C A Sc R W V V	product within segmented unit per STD=standard deviation of error reported within segmented unit per STD=vCF cells within segmented unit per STD=calculated area of VCF cells within segmented unit per segmented unit segmented unit per segmented unit per segmented unit segmented unit per segmented u	
vcf_tree T L vd d S u O 2: S (2 P cl S u m u m u m s c m m m m m m m m m m m m m m m m m	Table storing tree cover (canopy cover*0.8) from andsat VCF 2005 and classification-based woody regetation cover for segmented units classified as dominated by trees. BU_EMF_FID= FID for corresponding segmented units classifier (1=open, 2=closed) BVC= coded value for cover classifier (1=open, 2=closed) BVT= coded value for dominant lifeform classifier (2=tree) BCTTC= proportion of segmented unit covered by classified woody vegetation BUAREA= area in square meters of the segmented unit (1=0) BUAREA= ar	File geodatabase table

segmented unit RANGE=range in tree cover values of VCF cells within segmented unit	
VARIETY= count of unique tree cover values of	
VCF cells within segmented unit	
MEDIAN = median of tree cover of VCF cells within segmented unit	