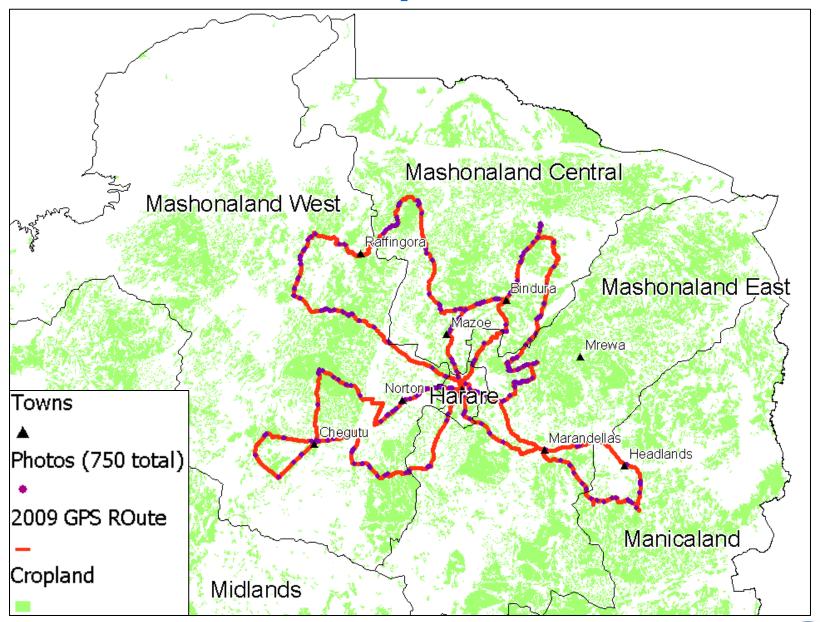
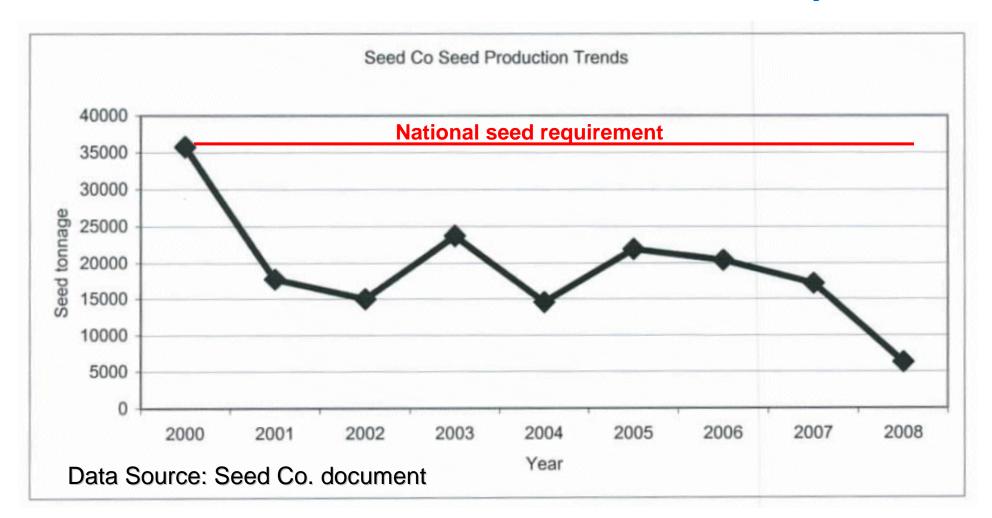
### 2009 Zimbabwe Crop Assessment Route

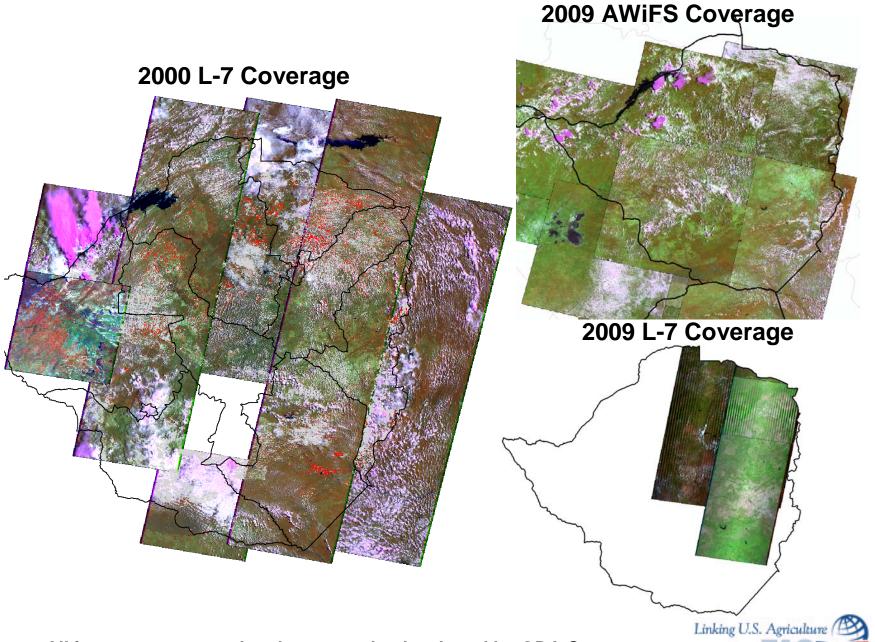


## Zimbabwe's National Seed Production Down, but AGRITEX Corn Area Estimates Up





### Satellite Coverage: Jan-April 2000 and 2009



All imagery processed and crop masks developed by GDA Corp.

### 2007/2009 Comparison near Chitenga, Zimbabwe





Feb. 23, 2009

Late-planted crop (on Dec. 25th) and fallow fields in

Same building

Linking U.S. Agriculture World

S 17° 39.486' E 031° 21.667'

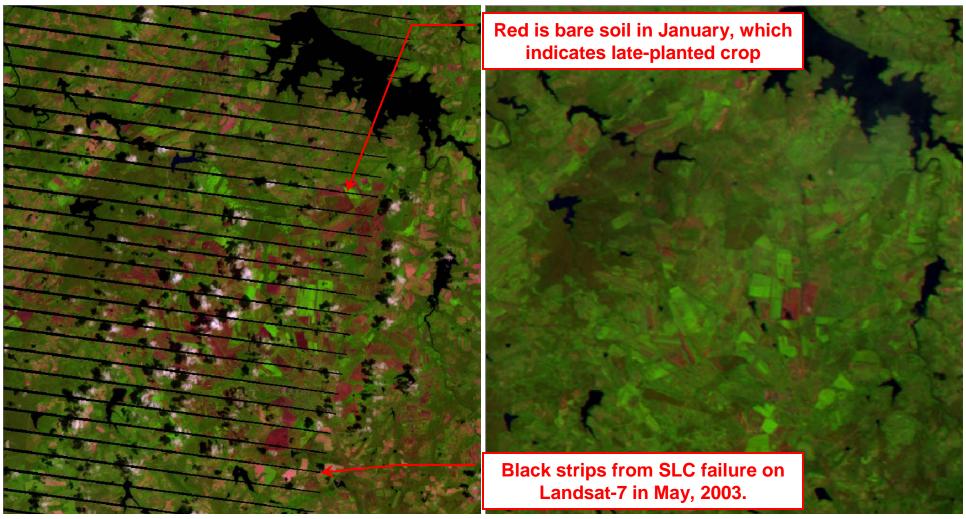
the background.

1237 m

02/23/2009 3:04:04 PM

### Late-Planted Crop Near Blanket, Zimbabwe

Landsat-7: Jan 10, 2009 AWiFS: March 23, 2009



Location (E30.597811long, S17.451926lat) is near Blanket, Zimbabwe; and Landsat-7 and AWiFS imagery retrieved by GDA Corp.



Significant field partitioning, fallow fields, late-planted crops & smaller water pans between 2000 & 2009.

March 06, 2000

January 10, 2009

Red is soil & indicates late-planted crop **Smaller water pan** 

Location (E30.40915422long, S16.93647607lat) is near Chimbadzi & Raffingora; Linking U.S. Agriculture and Landsat-7 imagery retrieved by GDA Corp.



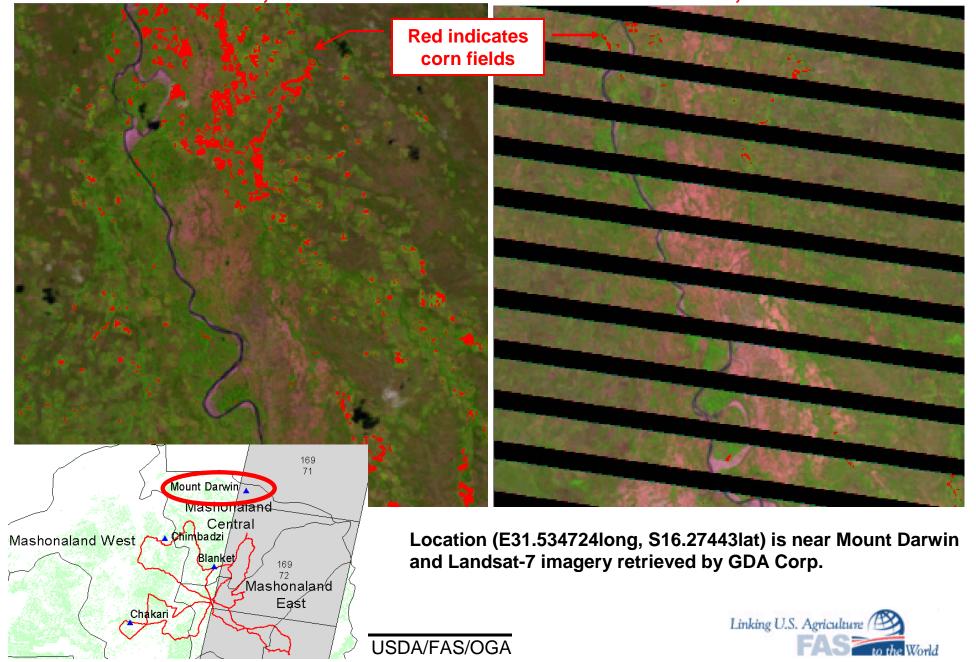
# Significant field partitioning, fallow fields, late-planted crops & smaller water pans between 2000 & 2009. March 06, 2000 January 10, 2009

Red is soil & indicates late-planted crop **Smaller water pans** 

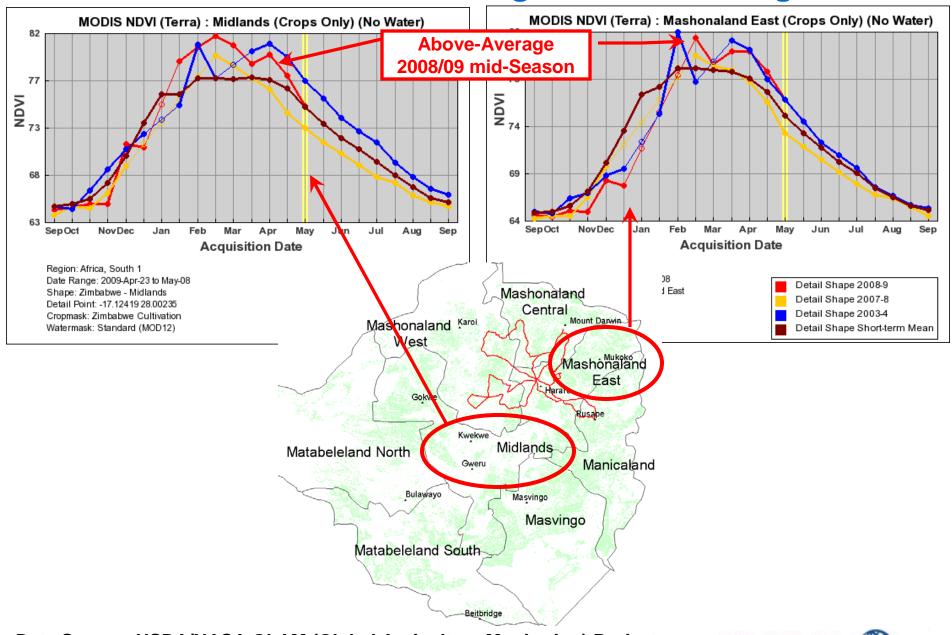
Location (E29.92434523long, S18.10574247lat) is between Chakari & Chegutu; and Landsat-7 imagery retrieved by GDA Corp.



### Landsat-7 Imagery Shows Less Corn Fields between 2000 & 2009 March 31, 2000 March 24, 2009



#### NDVI-MODIS Time-Series during 2008/09 Growing Season



Data Source: USDA/NASA GLAM (Global Agriculture Monitoring) Project http://pekko.geog.umd.edu/usda/demo1/



#### Percent Change in Area According to Satellite Estimates & AGRITEX

		2001			2009		AGRITEX	Landsat-7/AWiFS	2009 Satellite Estimate
Data Source	CFSAM/AGRITEX			AGRITEX			Percent Area	Percent Area	(Top Provinces Adjusted)
Provinces	Area(ha)	Prod (tons)	%Prod	Area(ha)	Prod (tons)	%Prod	Change 09/01	Change 09/00	Area (ha)
Manicaland	158,629	176,919	12	216,585	168,936	14	37	-8	145,939
Mashonaland Central	140,175	247,981	17	180,094	174,691	14	28	-9	127,559
Mashonaland East	220,136	293,628	20	241,768	186,161	15	10	1	222,337
Mashonaland West	198,919	475,210	32	195,679	246,556	20	-2	-28	143,222
Midlands	209,348	83,680	6	301,765	202,183	16	44	-59	209,348
Masvingo	170,270	114,244	8	207,459	141,072	11	22	-69	170,270
Matebeleland North	90,076	65,052	4	80,971	51,821	4	-10	-87	90,076
Matebeleland South	35,513	10,034	1	97,459	71,145	6	174	-93	35,513
Harare	No data	No data		No data	No data			10	
National Total	1,223,066	1,466,748	100	1,521,780	1,242,565	100	_	_	1,144,264

Note: All satellite imagery processing and data extraction conducted by GDA Corp.

### Farm Class Percent Change in Area from 2000-2009 (Satellite Estimates)

Summary	2000-2009 Percent
FARM class	Area Change (%)
A1	-26
A2	-19
Communal Lands	-34
Large Scale Commercial	-37
Old Resettlement Areas	-16
Small Scale Commercial	-36
TOTAL	-30

Note: All satellite imagery processing and data extraction conducted by GDA Corp.



Zimbabwe Farm Classifications and Survey Routes during 2006, 2007 & 2009

#### Routes

2009 Track

2007 Track

2006 Track

Farm Classifications

**A**1

**A**2

Communal Lands

💻 Large Scale Commercial Farms

Old Resettlement Areas

Small Scale Commercial Farms

