

Agriculture API URI Schema

Table	Column
Crops	<ul style="list-style-type: none">– FarmerId– PropertyId– Parishup– Extension– District– Group– CropGroup– PropertyID– FarmerID– PropertySize– CropArea– CropCount– CropDate– Farmsize– FarmerAge– Xcoord– Ycoord– firstname– lastname
Farms	<ul style="list-style-type: none">– FarmerId– Property_ID– Parish– Extension– District– Farmersize– PropertySize– Xcoord– Ycoord– Firstname– Lastname
Prices	<ul style="list-style-type: none">– Parish– CropType– LowerPrice– UpperPrice– FreqPrice– SupplyStatus– Quality– PriceMonth– Xcoord– Ycoord

URI Roots

URI	Description	Example
Queries		
/crops	Returns the hierarchy of values for CropGroups / CropTypes	
/crops/parishes	Returns the hierarchy of values for Parishes / CropTypes (i.e. available croptype data by Parish)	
/farms	Returns a summary of Farms in the database by Parish; includes counts and total PropertySize	
/farms/parishes	Returns a tabular (xml) summary of Farms in the database by Parish; includes number of farm properties in the parish and the total farming acreage	
/farms/parishes/extensions	Returns a tabular summary of Farms in the database by Parish/Extension; includes counts and total PropertySize	
/farms/parishes/extensions/districts	Returns a tabular summary of Farms in the database by Parish/Extension/District; includes counts and total PropertySize	
/prices	Returns the hierarchy of values for Parish / CropTypes (i.e. croptypes for which there is pricing information per Parish)	
/crops/croptype	Returns a description of the various crop types, the crop groups that fall within each, and a count of each crop type within the database	
/crops/parish	Returns a listing of the various crops grown within each parish and the number of farms the crop is grown on in that parish	
/crops/croptype	Returns a listing of the extensions within a particular parish district	crops/stann/cavevalley/extensions

	Parameters/Arguments	
<p>Aside from the basic URI schema above, data can be selected using Argument based Queries /?([col_ident] [delim] [\$var]</p> <p>In cases where Arguments are presented with the URL, all data column values are returned for rows satisfying the specified Queries</p>		
Format Parameters	<p>The API supports the returning of data both as xml and as json. To receive data from a particular query as one of the aforementioned types add the extension to the end of the URI action.</p> <p>e.g /farms.xml returns the list of farms as a xml file e.g /farms.json?parish=st.andrew</p>	
Paging	<p>Queries are limited to returning a maximum of 1,000 records at a time. In order to manipulate a large result-set, developers can use the following Paging parameters:</p> <p>page – utility parameter for paging through a large result-set. Indicates the page number requested from the recordset. agrodata/farms/index/page:[num]</p> <p>eg. /farms/index/page:2.xml /farms/index/page:1.xml?parish=st.ann</p>	

Use Case Scenarios	
Use Case	Query
Crops planted in St Elizabeth	/crops/?parish=stelizabeth
Carrots planted across the island	/crops/?croptype=carrots
<u>Credit proxy by microfinance institution</u>	
Farmer products over last year	/crops/?FarmerID=1324541&cropdate=2009
Number and size of properties	farms/?FarmerID=1324541&count &Sum=PropertySize
Price of crops planted	/crops/?FarmerID=1324541&cropdate=2010 /prices/?croptype=xxxxxxx
Number / Area of other farms planting same crops	/crops/?croptype=xxxxxxx&count&Sum=CropArea
<u>Farmers</u>	
Crops of other farms growing in an area	/crops/?parish=stelizabeth&district=junction
Highest producing crop last year	/crops/?&cropdate=2009&Max=CropArea
Expected highest producing crop in the future	/prices/?croptype=xxxxxxx
Price of a particular crop	/prices/?croptype=cassava
Best place to sell a crop	/prices/?croptype=cassava&Top=PriceAvg
<u>Supermarket/Retailers/Agro-producers</u>	
Largest producers of a crop	
Best places to buy a crop	
Properties near a particular plant	
<u>RADA / Government Agency / Min Of Agriculture</u>	
Most efficient farmer	
Highest growing extension, district, parish	
Which farmer sizes are most efficient	
Farmer sizes or properties that are under performing	