Agriculture OpenData API URI Schema

Tables: farms, crops, prices

Query Format: http://data/org.jm/api/[table_ident]/?([col_ident] [delim] [\$var])

Table	Column
Crops	– FarmerId
	- PropertyId
	- Parish
	- Extension
	- District
	- Farm (?)
	FarmSize* (micro, small, medium, medium-large, "")
	- FarmerAge
	- Group
	Crop group
	Group type
	- CropArea
	- CropCount
	- CropDate
	- PropertySize
	- xCoord
	- yCoord
Farms	- FarmerSize*
	- FarmerAge
	- Firstname
	- Lastname
	- FarmerId
	- PropertyId
	– Parish
	- Extension
	- district
	- Farm (?)
	- PropertySize
	- xCoord
	- yCoord
Prices	– Parish
	- cropType
	– price
	- priceMonth

URI Root: http://data/org.im/ani/.

URI	Description	Example		
This Documentation: http://data.org.jm/documentation.html Queries				
/crops/parishes	Returns the hierarchy of values for Parishes / CropTypes (i.e. available croptype data by Parish)			
/farms OR /farms/parishes	Returns a tabular (xml) summary of Farms in the database by Parish; includes counts and total PropertySize			
/farms/parishes/extensions /farms/parishes/extensions/di stricts	Returns a tabular (xml) summary of Farms in the database by Parish/Extension/District; includes counts and total PropertySize			
/prices OR /prices/parishes	Returns the average values of Prices for Parish / CropTypes (i.e. croptypes for which there is pricing information per Parish)			
	Parameters/Arguments			
the specified Queries Date Parameters	Date arguments are specified by indicating startdate and/or enddate parameters. A range is indicated using both parameters eg. 2009 is &startdate=2009-01-01&enddate=2009-12-31 eg. After Aug2009 is &startdate=2009-08-01 eg. Jan09 – Aug10 is &startdate=2009-01-01&enddate=2010-08-30			
Paging	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: per_page – number of results per page, for pagination of the result-set. Default setting is 50 page – utility parameter for paging through a large result-set. Indicates the page number requested from the recordset. eg. /farms/?parish=stcatherine&per_page=100&page=2			
	Aggregates			
•	ed to aggregate data across large (or the entire) data-se largest tomato farmer in St. Catherine. The following Aax, Top			
, ,	eg. # of Farms in St. Catherine: /farms/?parish=stcatherine&count			
Count				

URI	Description	Example
	/crops/?parish=portland&cropdate=2009& Sum =CropArea	
Max=[col_ident]	Eg. Largest yam production Farm in Trelawny: /crops/?parish=trelawny& Max =CropArea	
Top=[col_ident] i.e. Top20%	There are cases where it is more useful to find the Top 20%, rather than a single Maximum Eg. Largest Cassava producers islandwide, last year /crops/? &Top=CropArea&cropdate=2009 Not sure how easy this is to implement	

 $NB\!\!>\!$ Developers could accomplish these results using standard queries, paging parameters and local processing, however this will be more efficient

Use Case Scenarios				
Use Case	Query			
Crops planted in St Elizabeth	/crops/?parish=st.elizabeth			
Carrots planted across the island	/crops/?croptype=carrot			
Carrots planted over time period – Jan09 – Aug10	/crops/?croptype=carrot&startdate=2009-01-01&enddate=2010-08-30			
Credit proxy by	microfinance institution			
Farmer products over last year	/crops/?FarmerID=90410367&startdate=2009-01- 01&enddate=2009-12-31			
Number and size of properties	farms/?FarmerID=90410367&count ∑=PropertySize			
Price of crops planted	/crops/?FarmerID=90410367&startdate=2009-01-01 /prices/?croptype=Pumpkin			
Number / Area of other farms planting same crops	/crops/?croptype=xxxxxxx&count∑=CropArea			
]	Farmers			
Crops of other farms growing in an area	/crops/?parish=st.elizabeth&district=junction			
Highest producing crop last year	/crops&startdate=2009-01-01&enddate=2009-12-31&Max=CropArea			
Price of a particular crop	/prices/?croptype=Green Banana			
Best place to sell a crop	/prices/?croptype=cassava &Top =PriceAvg			
Supermarket/Ro	etailers/Agro-producers			
Largest producers of a crop				
Best places to buy a crop				
Properties near a particular plant				
RADA / Government	Agency / Min Of Agriculture			
Most efficient farmer				
Highest growing extension, district, parish				
Which farmer sizes are most efficient				

Use Case Scenarios		
Use Case	Query	
Farmer sizes or properties that are under performing		