

# Organic wine data collection

## Biodynamic vineyards

In [1]:

```
import parameters
```

In [2]:

```
from selenium import webdriver  
driver = webdriver.Chrome(parameters.chromedriver_location)
```

In [3]:

```
from utilities.biodynamic_spiders import VineyardSpider  
vineyard_spider = VineyardSpider(driver = driver, destination = parameters.vineyard_destination)
```

In [4]:

```
from datetime import date  
vineyard_spider.load_vineyards(link = 'http://www.biodynamicfood.org/',  
                                time = date(year=2018, month=10, day=29))
```

Loading category "Crops" successful.  
Loading subcategory "Fruit" successful.  
Loading "Grapes For Wine" successful.  
Loading more vineyards.  
Loaded all vineyards.

In [6]:

```
vineyard_links = vineyard_spider.get_vineyard_links()
print(vineyard_links)
```

```
['http://www.biodynamicfood.org/biodynamic/adamvs', 'http://www.biodynamicfood.org/biodynamic/ambyth-estate', 'http://www.biodynamicfood.org/biodynamic/ampelos-vineyards', 'http://www.biodynamicfood.org/biodynamic/Analemma-Wines', 'http://www.biodynamicfood.org/biodynamic/Annadel-Gap-Vineyard', 'http://www.biodynamicfood.org/biodynamic/araujo-estate', 'http://www.biodynamicfood.org/biodynamic/Bearg-Ranch-Vineyard', 'http://www.biodynamicfood.org/biodynamic/beaver-creek-vineyards', 'http://www.biodynamicfood.org/biodynamic/beckmen-purissima-vineyards', 'http://www.biodynamicfood.org/biodynamic/benziger-family-winery', 'http://www.biodynamicfood.org/biodynamic/bonterra-vineyards', 'http://www.biodynamicfood.org/biodynamic/brick-house-vineyards', 'http://www.biodynamicfood.org/biodynamic/brooks-vineyard', 'http://www.biodynamicfood.org/biodynamic/cooper-mountain-vineyards', 'http://www.biodynamicfood.org/biodynamic/cowhorn-vineyard-garden', 'http://www.biodynamicfood.org/biodynamic/dark-horse-vineyard', 'http://www.biodynamicfood.org/biodynamic/davero-sonoma-inc', 'http://www.biodynamicfood.org/biodynamic/deloch-vineyards', 'http://www.biodynamicfood.org/biodynamic/filigreen-farm', 'http://www.biodynamicfood.org/biodynamic/frey-vineyards-ltd', 'http://www.biodynamicfood.org/biodynamic/golden-vineyards', 'http://www.biodynamicfood.org/biodynamic/grimm-estates-llc', 'http://www.biodynamicfood.org/biodynamic/harms-vineyards-lavender-fields', 'http://www.biodynamicfood.org/biodynamic/hawk-horse-vineyards', 'http://www.biodynamicfood.org/biodynamic/hdd-llc', 'http://www.biodynamicfood.org/biodynamic/hedges-family-estate', 'http://www.biodynamicfood.org/biodynamic/jack-rabbit-hill-llc', 'http://www.biodynamicfood.org/biodynamic/jacob-hart-vineyard', 'http://www.biodynamicfood.org/biodynamic/johan-vineyards', 'http://www.biodynamicfood.org/biodynamic/keeler-estate-vineyard', 'http://www.biodynamicfood.org/biodynamic/maboroshi-vineyard', 'http://www.biodynamicfood.org/biodynamic/maha-estate', 'http://www.biodynamicfood.org/biodynamic/martian-ranch-vineyard', 'http://www.biodynamicfood.org/biodynamic/mattern-vineyards', 'http://www.biodynamicfood.org/biodynamic/Mineral-Springs-Ranch', 'http://www.biodynamicfood.org/biodynamic/montinore-estate', 'http://www.biodynamicfood.org/biodynamic/narrow-gate-vineyards', 'http://www.biodynamicfood.org/biodynamic/pearl-vineyard', 'http://www.biodynamicfood.org/biodynamic/pinehawk-vineyards', 'http://www.biodynamicfood.org/biodynamic/porter-creek-vineyards', 'http://www.biodynamicfood.org/biodynamic/porter-bass-vineyards', 'http://www.biodynamicfood.org/biodynamic/preston-vineyards', 'http://www.biodynamicfood.org/biodynamic/puma-springs-vineyards', 'http://www.biodynamicfood.org/biodynamic/raymond-vineyard-and-cellar', 'http://www.biodynamicfood.org/biodynamic/Roederer-Estate-Domaine-Anderson', 'http://www.biodynamicfood.org/biodynamic/rose-ranch', 'http://www.biodynamicfood.org/biodynamic/Sea-Smoke-Cellars', 'http://www.biodynamicfood.org/biodynamic/sims-vineyard', 'http://www.biodynamicfood.org/biodynamic/sawyer-lindquist-vineyard', 'http://www.biodynamicfood.org/biodynamic/sun-hawk-farms', 'http://www.biodynamicfood.org/biodynamic/Tablas-Creek-Vineyard', 'http://www.biodynamicfood.org/biodynamic/Upper-Five-Vineyard', 'http://www.biodynamicfood.org/biodynamic/wilridge-vineyard']
```

In [7]:

```
vineyard_spider.prepare_vineyard_parsing(links = vineyard_links)
```

```
2018-10-29 16:48:31 [scrapy.utils.log] INFO: Scrapy 1.5.1 started (bot: scrapybot)
```

```
2018-10-29 16:48:31 [scrapy.utils.log] INFO: Versions: lxml 4.2.5.0, libxml2 2.9.8, cssselect 1.0.3, parsel 1.5.1, w3lib 1.19.0, Twisted 18.9.0, Python 3.6.6 (default, Sep 12 2018, 18:26:19) - [GCC 8.0.1 20180414 (experimental) [trunk revision 259383]], pyOpenSSL 18.0.0 (OpenSSL 1.1.0i 14 Aug 2018), cryptography 2.3.1, Platform Linux-4.15.0-38-generic-x86_64-with-Ubuntu-18.04-bionic
```

```
2018-10-29 16:48:31 [scrapy.crawler] INFO: Overridden settings: {'USER_AGENT': 'Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1)'}
```

```
2018-10-29 16:48:31 [scrapy.middleware] INFO: Enabled extensions:
```

```
['scrapy.extensions.corestats.CoreStats',
 'scrapy.extensions.telnet.TelnetConsole',
 'scrapy.extensions.memusage.MemoryUsage',
 'scrapy.extensions.logstats.LogStats']
```

```
2018-10-29 16:48:31 [scrapy.middleware] INFO: Enabled downloader middlewares:
```

```
['scrapy.downloadermiddlewares.httppauth.HttpAuthMiddleware',
 'scrapy.downloadermiddlewares.downloadtimeout.DownloadTimeoutMiddleware',
 'scrapy.downloadermiddlewares.defaultheaders.DefaultHeadersMiddleware',
 'scrapy.downloadermiddlewares.useragent.UserAgentMiddleware',
 'scrapy.downloadermiddlewares.retry.RetryMiddleware',
 'scrapy.downloadermiddlewares.redirect.MetaRefreshMiddleware',
 'scrapy.downloadermiddlewares.httpcompression.HttpCompressionMiddleware',
 'scrapy.downloadermiddlewares.redirect.RedirectMiddleware',
 'scrapy.downloadermiddlewares.cookies.CookiesMiddleware',
 'scrapy.downloadermiddlewares.httpproxy.HttpProxyMiddleware',
 'scrapy.downloadermiddlewares.stats.DownloaderStats']
```

```
2018-10-29 16:48:31 [scrapy.middleware] INFO: Enabled spider middlewares:
```

```
['scrapy.spidermiddlewares.httperror.HttpErrorMiddleware',
 'scrapy.spidermiddlewares.offsite.OffsiteMiddleware',
 'scrapy.spidermiddlewares.referrer.RefererMiddleware',
 'scrapy.spidermiddlewares.urllength.UrlLengthMiddleware',
 'scrapy.spidermiddlewares.depth.DepthMiddleware']
```

```
2018-10-29 16:48:31 [scrapy.middleware] INFO: Enabled item pipelines:
[]
```

```
2018-10-29 16:48:31 [scrapy.core.engine] INFO: Spider opened
```

```
2018-10-29 16:48:31 [scrapy.extensions.logstats] INFO: Crawled 0 pages (at 0 pages/min), scraped 0 items (at 0 items/min)
```

```
2018-10-29 16:48:31 [scrapy.extensions.telnet] DEBUG: Telnet console listening on 127.0.0.1:6023
```

In [8]:

```
vineyard_spider.parse_organizations()
```

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/Analemma-Wines> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/ampelos-vineyards> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/adamvs> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/Bearg-Ranch-Vineyard> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/araujo-estate> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/beaver-creek-vineyards> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/Annadel-Gap-Vineyard> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/ambyth-estate> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/beckmen-purisima-vineyards> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/benziger-family-winery> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/cooper-mountain-vineyards> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/cowhorn-vineyard-garden> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/bonterra-vineyards> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/brick-house-vineyards> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/dark-horse-vineyard> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/brooks-vineyard> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/davero-sonoma-inc> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/deloach-vineyards> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/filigreen-farm> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/frey-vineyards-ltd> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/golden-vineyards> (referer: None)

None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/grimm-estates-llc> (referer: None)

2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/harms-vineyards-lavender-fields> (referer: None)

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2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/hawk-horse-vineyards> (referer: None)
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/hdd-llc> (referer: None)
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/hedges-family-estate> (referer: None)
2018-10-29 16:48:33 [scrapy.core.scrapers] ERROR: Spider error processing <GET http://www.biodynamicfood.org/biodynamic/grimm-estates-llc> (referer: None)
Traceback (most recent call last):
  File "/home/julian/PycharmProjects/organic_wine/venv/lib/python3.6/site-packages/twisted/internet/defer.py", line 654, in _runCallbacks
    current.result = callback(current.result, *args, **kw)
  File "/home/julian/PycharmProjects/organic_wine/utilities/biodynamic_spiders.py", line 124, in parse
    phone = [line for line in contact_info if line.startswith('Phone: ')]
IndexError: list index out of range
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/keeler-estate-vineyard> (referer: None)
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/jacob-hart-vineyard> (referer: None)
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/johan-vineyards> (referer: None)
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/jack-rabbit-hill-llc> (referer: None)
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/maboroshi-vineyard> (referer: None)
2018-10-29 16:48:33 [scrapy.core.scrapers] ERROR: Spider error processing <GET http://www.biodynamicfood.org/biodynamic/hdd-llc> (referer: None)
Traceback (most recent call last):
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    phone = [line for line in contact_info if line.startswith('Phone: ')]
IndexError: list index out of range
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/maha-estate> (referer: None)
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/martian-ranch-vineyard> (referer: None)
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/mattern-vineyards> (referer: None)

```

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Acreage not specified for one organization.



```
2018-10-29 16:48:33 [scrapy.core.scrapers] ERROR: Spider error processing <GET http://www.biodynamicfood.org/biodynamic/maha-estate> (referrer: None)
```

```
Traceback (most recent call last):
```

```
File "/home/julian/PycharmProjects/organic_wine/venv/lib/python3.6/site-packages/twisted/internet/defer.py", line 654, in _runCallbacks
    current.result = callback(current.result, *args, **kw)
```

```
File "/home/julian/PycharmProjects/organic_wine/utilities/biodynamic_spiders.py", line 124, in parse
    phone = [line for line in contact_info if line.startswith('Phone: ')]
```

```
IndexError: list index out of range
```

```
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/Mineral-Springs-Ranch> (referrer: None)
```

```
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/pearl-vineyard> (referrer: None)
```

```
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/montinore-estate> (referrer: None)
```

```
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/porter-bass-vineyards> (referrer: None)
```

```
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/porter-creek-vineyards> (referrer: None)
```

```
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/pine-hawk-vineyards> (referrer: None)
```

```
2018-10-29 16:48:33 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/preston-vineyards> (referrer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/narrow-gate-vineyards> (referrer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.scrapers] ERROR: Spider error processing <GET http://www.biodynamicfood.org/biodynamic/Mineral-Springs-Ranch> (referrer: None)
```

```
Traceback (most recent call last):
```

```
File "/home/julian/PycharmProjects/organic_wine/venv/lib/python3.6/site-packages/twisted/internet/defer.py", line 654, in _runCallbacks
    current.result = callback(current.result, *args, **kw)
```

```
File "/home/julian/PycharmProjects/organic_wine/utilities/biodynamic_spiders.py", line 124, in parse
    phone = [line for line in contact_info if line.startswith('Phone: ')]
```

```
IndexError: list index out of range
```

```
2018-10-29 16:48:34 [scrapy.core.scrapers] ERROR: Spider error processing <GET http://www.biodynamicfood.org/biodynamic/pine-hawk-vineyards> (referrer: None)
```

```
Traceback (most recent call last):
```

```
File "/home/julian/PycharmProjects/organic_wine/venv/lib/python3.6/site-packages/twisted/internet/defer.py", line 654, in _runCallbacks
    current.result = callback(current.result, *args, **kw)
```

```
File "/home/julian/PycharmProjects/organic_wine/utilities/biodynamic_spiders.py", line 124, in parse
    phone = [line for line in contact_info if line.startswith('Phone: ')]
```

```
IndexError: list index out of range
```

```
e: '')[0]
```

```
IndexError: list index out of range
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/Roederer-Estate-Domaine-Anderson> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/puma-springs-vineyards> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/rose-ranch> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/Sea-Smoke-Cellars> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/raymond-vineyard-and-cellar> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/sims-vineyard> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/sun-hawk-farms> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/sawyer-lindquist-vineyard> (referer: None)
```

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```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/Tablas-Creek-Vineyard> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.scrapers] ERROR: Spider error processing <GET http://www.biodynamicfood.org/biodynamic/puma-springs-vineyards> (referer: None)
```

```
Traceback (most recent call last):
```

```
File "/home/julian/PycharmProjects/organic_wine/venv/lib/python3.6/site-packages/twisted/internet/defer.py", line 654, in _runCallbacks
    current.result = callback(current.result, *args, **kw)
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File "/home/julian/PycharmProjects/organic_wine/venv/lib/python3.6/site-packages/twisted/internet/defer.py", line 654, in _runCallbacks
    current.result = callback(current.result, *args, **kw)
```

```
IndexError: list index out of range
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/wilridge-vineyard> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.engine] DEBUG: Crawled (200) <GET http://www.biodynamicfood.org/biodynamic/Upper-Five-Vineyard> (referer: None)
```

```
2018-10-29 16:48:34 [scrapy.core.scrapers] ERROR: Spider error processing <GET http://www.biodynamicfood.org/biodynamic/Upper-Five-Vineyard> (referer: None)
```

```
Traceback (most recent call last):
```

```
File "/home/julian/PycharmProjects/organic_wine/venv/lib/python3.6/site-packages/twisted/internet/defer.py", line 654, in _runCallbacks
    current.result = callback(current.result, *args, **kw)
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File "/home/julian/PycharmProjects/organic_wine/venv/lib/python3.6/site-packages/twisted/internet/defer.py", line 654, in _runCallbacks
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```

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```
2018-10-29 16:48:34 [scrapy.core.engine] INFO: Closing spider (finished)
2018-10-29 16:48:34 [scrapy.statscollectors] INFO: Dumping Scrapy stats:
{'downloader/request_bytes': 15163,
 'downloader/request_count': 53,
 'downloader/request_method_count/GET': 53,
 'downloader/response_bytes': 349527,
 'downloader/response_count': 53,
 'downloader/response_status_count/200': 53,
 'finish_reason': 'finished',
 'finish_time': datetime.datetime(2018, 10, 29, 20, 48, 34, 477625),
 'log_count/DEBUG': 54,
 'log_count/ERROR': 7,
 'log_count/INFO': 7,
 'memusage/max': 83271680,
 'memusage/startup': 83271680,
 'response_received_count': 53,
 'scheduler/dequeued': 53,
 'scheduler/dequeued/memory': 53,
 'scheduler/enqueued': 53,
 'scheduler/enqueued/memory': 53,
 'spider_exceptions/IndexError': 7,
 'start_time': datetime.datetime(2018, 10, 29, 20, 48, 31, 173019)}
2018-10-29 16:48:34 [scrapy.core.engine] INFO: Spider closed (finished)
```

In [9]:

```
vineyard_spider.close_parser()
```

In [ ]: