

GME's website
XML files and Microsoft Office 2003

Revision
1.1

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1. Introduction

This document describes the technical details of the XML files posted on GME's website www.mercatoelettrico.org and the steps for importing them into Excel 2003 and Microsoft Access 2003.

2. New structure of XML files

The XML files that are used on GME's website (www.mercatoelettrico.org) have an initial "Schema" summarising their features and a set of "elements" representing the data proper. These files can be easily imported into Microsoft Excel 2003 and Microsoft Access 2003.

The following is the XML file **20050611MGPLiquidita.xml** (daily liquidity).

```
<?xml version="1.0" standalone="yes"?>
<NewDataSet>
```

schema

```
<xs:schema id="NewDataSet" xmlns=""
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:msdata="urn:schemas-
  microsoft-com:xml-msdata">
  <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:Locale="it-
  IT">
    <xs:complexType>
      <xs:choice maxOccurs="unbounded">
        <xs:element name="DatiLiquidita">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="Data" type="xs:string" minOccurs="0" />
              <xs:element name="Mercato" type="xs:string" minOccurs="0" />
              <xs:element name="Ora" type="xs:string" minOccurs="0" />
              <xs:element name="Liquidita" type="xs:string" minOccurs="0"
              />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:choice>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

elements

```
<DatiLiquidita>
  <Data>20050611</Data>
  <Mercato>MGP</Mercato>
  <Ora>1</Ora>
  <Liquidita>60,4488301978234</Liquidita>
</DatiLiquidita>
<DatiLiquidita>
  <Data>20050611</Data>
  <Mercato>MGP</Mercato>
  <Ora>2</Ora>
  <Liquidita>60,296957883899</Liquidita>
</DatiLiquidita>
<DatiLiquidita>
  <Data>20050611</Data>
  <Mercato>MGP</Mercato>
  <Ora>3</Ora>
  <Liquidita>59,370682043228</Liquidita>
</DatiLiquidita>
```

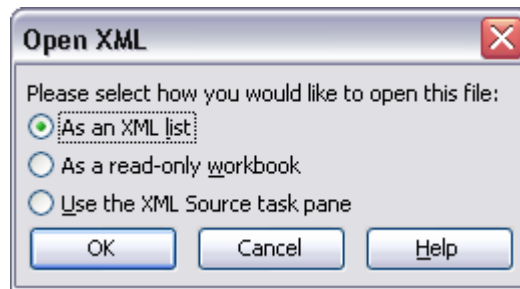
...

3. Importing into Microsoft Excel 2003

Let us take the example of the file “20050611MGPLiquidita.xml” (liquidity).

After downloading the file, follow the steps indicated below to import it into Microsoft Excel 2003:

- open the Microsoft Excel 2003 application
- on the **File** drop-down menu, click **Open**
- in the **Files of type** list, select **XML files (*.xml)**
- in the **Look in** box, navigate to the XML file you want to open, select the file, and then click **Open**
- the **Open XML** dialog box appears:



Select **XML list** and then click **OK**.

The sheet will show the imported schema and data.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	id	name	ns1:DataSet	ns1:Locale	maxOccurs	name2	name3	type	minOccurs	Data	Mercato	Ora	Liquidita
2	NewDataSet	NewDataSet	VERO	it-IT	unbounded	DatiLiquidita	Data	xs:string	0				
3	NewDataSet	NewDataSet	VERO	it-IT	unbounded	DatiLiquidita	Mercato	xs:string	0				
4	NewDataSet	NewDataSet	VERO	it-IT	unbounded	DatiLiquidita	Ora	xs:string	0				
5	NewDataSet	NewDataSet	VERO	it-IT	unbounded	DatiLiquidita	Liquidita	xs:string	0				
6										20050611	MGP	1	60,4488301978234
7										20050611	MGP	2	60,296957883899
8										20050611	MGP	3	59,370682043228
9										20050611	MGP	4	58,8034794924011
10										20050611	MGP	5	58,5957467232275
11										20050611	MGP	6	58,526940478225
12										20050611	MGP	7	56,7426218032794
13										20050611	MGP	8	57,5336615348996
14										20050611	MGP	9	60,090499680228
15										20050611	MGP	10	61,5860527772387
16										20050611	MGP	11	61,8982056663042
17										20050611	MGP	12	61,9056607130239
18										20050611	MGP	13	61,8552174909453
19										20050611	MGP	14	61,4728033750205
20										20050611	MGP	15	61,3111854235742
21										20050611	MGP	16	61,4620735149019
22										20050611	MGP	17	62,0355275022599
23										20050611	MGP	18	62,1306561519724
24										20050611	MGP	19	61,9022954530816
25										20050611	MGP	20	61,6900212111091
26										20050611	MGP	21	62,0926847715666
27										20050611	MGP	22	63,3492481607223
28										20050611	MGP	23	63,6187253508064
29										20050611	MGP	24	63,402939803697

If you wish to display the data from column A and row 1, delete the rows and columns containing the schema:

select the rows (in this example, from row 2 to 5) and then click **Cancel** from the **Edit** menu; then, delete also the columns (e.g.: from A to I) and you will get the following Excel file:

Date/Market/Hour/Liquidity

	A	B	C	D
1	Data	Mercato	Ora	Liquidita
2	20050611	MGP	1	60,4488301978234
3	20050611	MGP	2	60,296957883899
4	20050611	MGP	3	59,370682043228
5	20050611	MGP	4	58,8034794924011
6	20050611	MGP	5	58,5957467232275
7	20050611	MGP	6	58,526940478225
8	20050611	MGP	7	56,7426218032794
9	20050611	MGP	8	57,5336615348996
10	20050611	MGP	9	60,090499680228
11	20050611	MGP	10	61,5860527772387
12	20050611	MGP	11	61,8982056663042
13	20050611	MGP	12	61,9056607130239
14	20050611	MGP	13	61,8552174909453
15	20050611	MGP	14	61,4728033750205
16	20050611	MGP	15	61,3111854235742
17	20050611	MGP	16	61,4620735149019
18	20050611	MGP	17	62,0355275022599
19	20050611	MGP	18	62,1306561519724
20	20050611	MGP	19	61,9022954530816
21	20050611	MGP	20	61,6900212111091
22	20050611	MGP	21	62,0926847715666
23	20050611	MGP	22	63,3492481607223
24	20050611	MGP	23	63,6187253508064
25	20050611	MGP	24	63,402939803697

Where applicable, text cells may be converted into numerical cells with the following steps:

1. enter number 1 into an empty cell
2. select the cell and click **Copy** on the **Edit** menu
3. select the range of numbers stored as text that you wish to convert
4. click **Special Paste** on the **Edit** menu
5. click **Multiply** in the **Operations** group box
6. click **OK**
7. Cancel the content of the cell that you have entered in the first step.

You will get the final result:

	A	B	C	D
1	Data	Mercato	Ora	Liquidita
2	20050611	MGP	1	60,4488302
3	20050611	MGP	2	60,29695788
4	20050611	MGP	3	59,37068204
5	20050611	MGP	4	58,80347949
6	20050611	MGP	5	58,59574672
7	20050611	MGP	6	58,52694048
8	20050611	MGP	7	56,7426218
9	20050611	MGP	8	57,53366153
10	20050611	MGP	9	60,09049968
11	20050611	MGP	10	61,58605278
12	20050611	MGP	11	61,89820567
13	20050611	MGP	12	61,90566071
14	20050611	MGP	13	61,85521749
15	20050611	MGP	14	61,47280338
16	20050611	MGP	15	61,31118542
17	20050611	MGP	16	61,46207351
18	20050611	MGP	17	62,0355275
19	20050611	MGP	18	62,13065615
20	20050611	MGP	19	61,90229545
21	20050611	MGP	20	61,69002121
22	20050611	MGP	21	62,09268477
23	20050611	MGP	22	63,34924816
24	20050611	MGP	23	63,61872535
25	20050611	MGP	24	63,4029398

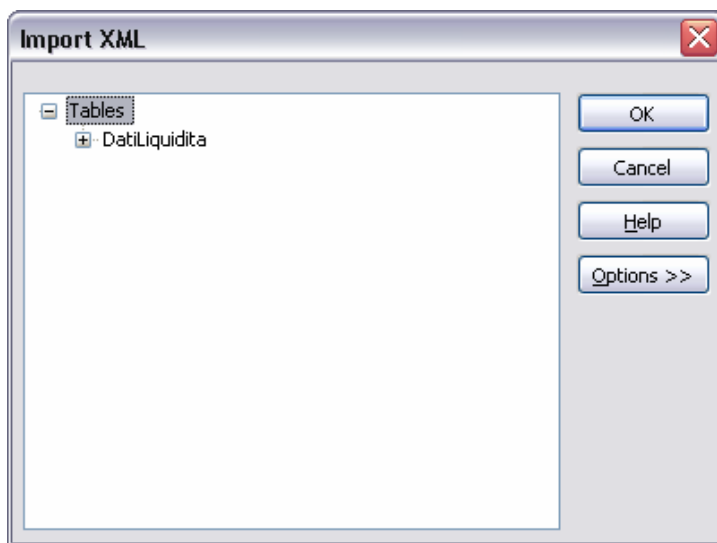
Finally, save the file with the desired name.

4. Importing into Microsoft Access 2003

Let us take the example of the file “20050611MGPLiquidita.xml” (liquidity).

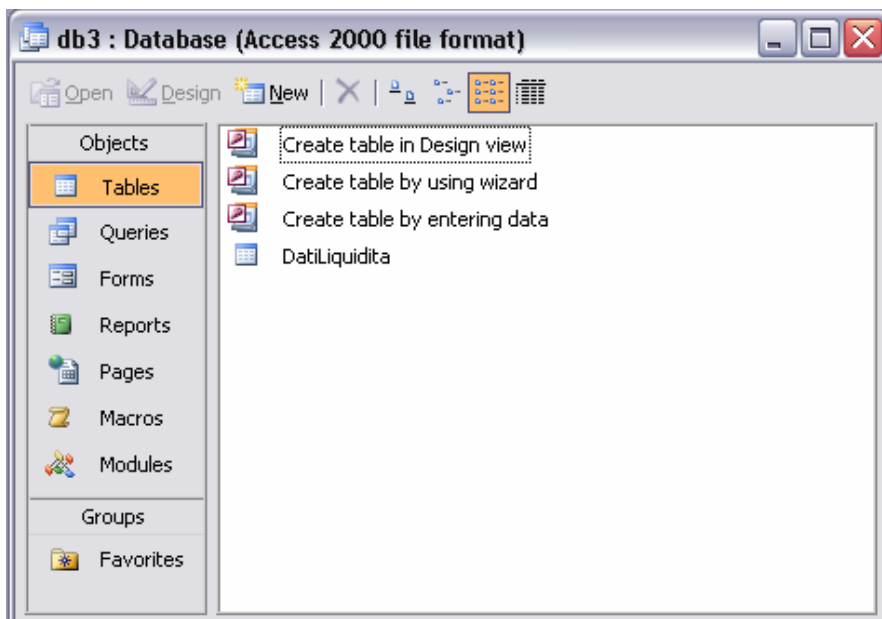
After downloading the XML file, follow the steps stated below to import it into Microsoft Access 2003:

- open the Microsoft Access 2003 application
- on the **File** menu, click **Create New Database** using **Blank Database**
- enter the name of the new Microsoft Access 2003 database (e.g. liquidity) to be created
- on the **File** drop-down menu, click **Get external data-Import**
- select the XML file and import it
- in the menu:

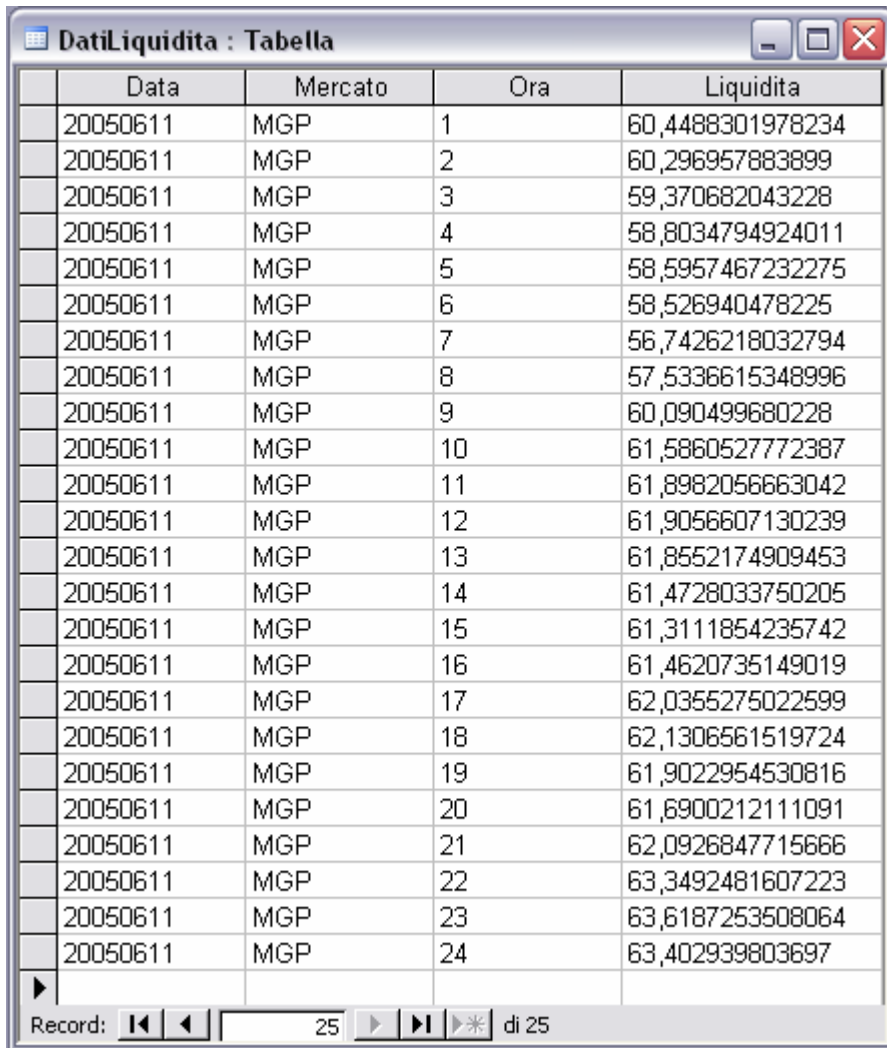


click OK

You will get the following table:



By selecting the created table "GmeDatiLiquidita", you will get:



Data	Mercato	Ora	Liquidita
20050611	MGP	1	60,4488301978234
20050611	MGP	2	60,296957883899
20050611	MGP	3	59,370682043228
20050611	MGP	4	58,8034794924011
20050611	MGP	5	58,5957467232275
20050611	MGP	6	58,526940478225
20050611	MGP	7	56,7426218032794
20050611	MGP	8	57,5336615348996
20050611	MGP	9	60,090499680228
20050611	MGP	10	61,5860527772387
20050611	MGP	11	61,8982058663042
20050611	MGP	12	61,9056607130239
20050611	MGP	13	61,8552174909453
20050611	MGP	14	61,4728033750205
20050611	MGP	15	61,3111854235742
20050611	MGP	16	61,4620735149019
20050611	MGP	17	62,0355275022599
20050611	MGP	18	62,1306561519724
20050611	MGP	19	61,9022954530816
20050611	MGP	20	61,6900212111091
20050611	MGP	21	62,0926847715666
20050611	MGP	22	63,3492481607223
20050611	MGP	23	63,6187253508064
20050611	MGP	24	63,402939803697

Record: 25 di 25

5. Examples of XML files

The following are files XML *schemas* that are used on GME's website. The schemas are supported by a few examples of *elements*.

5.1 File: 20050611MGPPrezzi.xml

```
<?xml version="1.0" standalone="yes"?>
<NewDataSet>
  <xs:schema id="NewDataSet" xmlns="" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
  <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:Locale="it-IT">
    <xs:complexType>
      <xs:choice maxOccurs="unbounded">
        <xs:element name="Prezzi">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="Data" type="xs:string" minOccurs="0" />
              <xs:element name="Mercato" type="xs:string" minOccurs="0" />
              <xs:element name="Ora" type="xs:string" minOccurs="0" />
              <xs:element name="PUN" type="xs:string" minOccurs="0" />
              <xs:element name="NAT" type="xs:string" minOccurs="0" />
              <xs:element name="CALB" type="xs:string" minOccurs="0" />
              <xs:element name="CNOR" type="xs:string" minOccurs="0" />
              <xs:element name="CSUD" type="xs:string" minOccurs="0" />
              <xs:element name="NORD" type="xs:string" minOccurs="0" />
              <xs:element name="SARD" type="xs:string" minOccurs="0" />
              <xs:element name="SICI" type="xs:string" minOccurs="0" />
              <xs:element name="SUD" type="xs:string" minOccurs="0" />
              <xs:element name="AUST" type="xs:string" minOccurs="0" />
              <xs:element name="BRNN" type="xs:string" minOccurs="0" />
              <xs:element name="CORS" type="xs:string" minOccurs="0" />
              <xs:element name="E_NE" type="xs:string" minOccurs="0" />
              <xs:element name="E_NW" type="xs:string" minOccurs="0" />
              <xs:element name="E_SD" type="xs:string" minOccurs="0" />
              <xs:element name="FRAN" type="xs:string" minOccurs="0" />
              <xs:element name="GREC" type="xs:string" minOccurs="0" />
              <xs:element name="MFTV" type="xs:string" minOccurs="0" />
              <xs:element name="PBNF" type="xs:string" minOccurs="0" />
              <xs:element name="PRGP" type="xs:string" minOccurs="0" />
              <xs:element name="ROSN" type="xs:string" minOccurs="0" />
              <xs:element name="SLOV" type="xs:string" minOccurs="0" />
              <xs:element name="SVIZ" type="xs:string" minOccurs="0" />
              <xs:element name="TBRV" type="xs:string" minOccurs="0" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:choice>
    </xs:complexType>
  </xs:element>
</xs:schema>
<Prezzi>
  <Data>20050611</Data>
  <Mercato>MGP</Mercato>
  <Ora>1</Ora>
  <PUN>34,914434</PUN>
  <NAT>34,88</NAT>
  <CALB>34,88</CALB>
  <CNOR>34,88</CNOR>
</Prezzi>
```

```
<CSUD>34,88</CSUD>
<NORD>34,88</NORD>
<SARD>35,69</SARD>
<SICI>34,88</SICI>
<SUD>34,88</SUD>
<AUST>34,88</AUST>
<BRNN>34,88</BRNN>
<CORS>35,69</CORS>
<E_NE>34,88</E_NE>
<E_NW>34,88</E_NW>
<E_SD>0</E_SD>
<FRAN>34,88</FRAN>
<GREC>0</GREC>
<MFTV>34,88</MFTV>
<PBNF>34,88</PBNF>
<PRGP>34,88</PRGP>
<ROSN>34,88</ROSN>
<SLOV>34,88</SLOV>
<SVIZ>34,88</SVIZ>
<TBRV>34,88</TBRV>
</Prezzi>
<Prezzi>
  <Data>20050611</Data>
  <Mercato>MGP</Mercato>
  <Ora>2</Ora>
  <PUN>28,256407</PUN>
  <NAT>28,47</NAT>
  <CALB>28,22</CALB>
  <CNOR>28,22</CNOR>
  <CSUD>28,22</CSUD>
  <NORD>28,22</NORD>
  <SARD>28,69</SARD>
  <SICI>28,50</SICI>
  <SUD>28,22</SUD>
  <AUST>28,22</AUST>
  <BRNN>28,22</BRNN>
  <CORS>28,69</CORS>
  <E_NE>28,22</E_NE>
  <E_NW>28,22</E_NW>
  <E_SD>0</E_SD>
  <FRAN>28,22</FRAN>
  <GREC>0</GREC>
  <MFTV>28,22</MFTV>
  <PBNF>28,22</PBNF>
  <PRGP>28,50</PRGP>
  <ROSN>28,22</ROSN>
  <SLOV>28,22</SLOV>
  <SVIZ>28,22</SVIZ>
  <TBRV>28,22</TBRV>
</Prezzi>
<Prezzi>
  <Data>20050611</Data>
  <Mercato>MGP</Mercato>
  <Ora>3</Ora>
  <PUN>27,934097</PUN>
  <NAT>28,08</NAT>
  <CALB>27,90</CALB>
  <CNOR>27,90</CNOR>
  <CSUD>27,90</CSUD>
  <NORD>27,90</NORD>
  <SARD>27,90</SARD>
  <SICI>28,50</SICI>
  <SUD>27,90</SUD>
```

5.2 File: 20050611MGPQuantita.xml

```

<?xml version="1.0" standalone="yes"?>
<NewDataSet>
  <xs:schema id="NewDataSet" xmlns="" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
  <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:Locale="it-IT">
    <xs:complexType>
      <xs:choice maxOccurs="unbounded">
        <xs:element name="Quantita">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="Data" type="xs:string" minOccurs="0" />
              <xs:element name="Mercato" type="xs:string" minOccurs="0" />
              <xs:element name="Ora" type="xs:string" minOccurs="0" />
              <xs:element name="TOTALE_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="NAT_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="CALB_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="CNOR_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="CSUD_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="NORD_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="SARD_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="SICI_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="SUD_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="AUST_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="BRNN_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="CORS_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="E_NE_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="E_NW_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="E_SD_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="FRAN_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="GREC_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="MFTV_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="PBNF_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="PRGP_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="ROSN_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="SLOV_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="SVIZ_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="TBRV_ACQUISTI" type="xs:string" minOccurs="0" />
              <xs:element name="TOTALE_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="NAT_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="CALB_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="CNOR_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="CSUD_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="NORD_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="SARD_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="SICI_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="SUD_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="AUST_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="BRNN_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="CORS_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="E_NE_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="E_NW_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="E_SD_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="FRAN_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="GREC_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="MFTV_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="PBNF_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="PRGP_VENDITE" type="xs:string" minOccurs="0" />
              <xs:element name="ROSN_VENDITE" type="xs:string" minOccurs="0" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:choice>
    </xs:complexType>
  </xs:element>
</NewDataSet>

```

```

        <xs:element name="SLOV_VENDITE" type="xs:string" minOccurs="0" />
        <xs:element name="SVIZ_VENDITE" type="xs:string" minOccurs="0" />
        <xs:element name="TBRV_VENDITE" type="xs:string" minOccurs="0" />
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:schema>
<Quantita>
  <Data>20050611</Data>
  <Mercato>MGP</Mercato>
  <Ora>1</Ora>
  <TOTALE_ACQUISTI>30092,182</TOTALE_ACQUISTI>
  <NAT_ACQUISTI>30092,1820</NAT_ACQUISTI>
  <CALB_ACQUISTI>301,8930</CALB_ACQUISTI>
  <CNOR_ACQUISTI>3207,7990</CNOR_ACQUISTI>
  <CSUD_ACQUISTI>3075,2440</CSUD_ACQUISTI>
  <NORD_ACQUISTI>16244,6120</NORD_ACQUISTI>
  <SARD_ACQUISTI>1252,1930</SARD_ACQUISTI>
  <SICI_ACQUISTI>1751,81</SICI_ACQUISTI>
  <SUD_ACQUISTI>3752,3810</SUD_ACQUISTI>
  <AUST_ACQUISTI>0</AUST_ACQUISTI>
  <BRNN_ACQUISTI>0</BRNN_ACQUISTI>
  <CORS_ACQUISTI>55</CORS_ACQUISTI>
  <E_NE_ACQUISTI>0</E_NE_ACQUISTI>
  <E_NW_ACQUISTI>0</E_NW_ACQUISTI>
  <E_SD_ACQUISTI>0</E_SD_ACQUISTI>
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5.3 File: 20050611MGPLiquidita.xml

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