Supporting Educational Research and Policies with Educational Statistics Services

Center for Educational Statistics / Korean Educational Development Institute
http://kess.kedi.re.kr

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1. Educational Statistics Service
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Educational Statistics Service

Educational Statistics Service (kess.kedi.re.kr/eng)

Educational Statistics Blog (blog.naver.com/kedi_cesi)

Educational Statistics Mobile Service
Educational Statistics Homepage (1)

http://kess.kedi.re.kr/eng

Korean Educational Statistics Service

Citizens

Administrators

Researchers
Specific statistical data can be selected through Category inquiry, which is located at the explorer area on the left side of the detailed screen of educational statistics. Download functions for the data in statistical comparison, graph, and statistical table are provided.

1. Select the year of the statistics.

2. Select the object of the statistics (i.e. kindergarten, primary, and secondary statistics, university statistics, employment statistics, lifelong statistics, or international statistics). For each of the selected object, a list of statistical data belonging to the respective category appears for selection.

3. When you select specific statistics, detailed information relating to the statistics is displayed on the right side.
Specific statistical data can be selected through **Category inquiry**, which is located at the explorer area on the left side of the detailed screen of educational statistics. **Download functions** for the data in statistical comparison, graph, and statistical table are provided.

4. Download the graph in image format. There are functions to change the graph type and view graph data table.

5. The statistical table can be downloaded in PDF, Excel, or WORD format.
Educational Statistics provides various published materials through online services.


<table>
<thead>
<tr>
<th>Title</th>
<th>Type</th>
<th>First Publication Year</th>
<th>Publication term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statistical Yearbook of Education</td>
<td>Booklet</td>
<td>1962</td>
<td>Periodic Annual (Oct.)</td>
</tr>
<tr>
<td>Brief Statistics on Korean Education</td>
<td>Booklet</td>
<td>1998</td>
<td>Periodic Annual (Oct.)</td>
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<tr>
<td>Brief Statistics on Employment</td>
<td>Booklet</td>
<td>2004</td>
<td>Periodic Annual (Oct.)</td>
</tr>
<tr>
<td>Education at a Glance: OECD indicators (in Korean)</td>
<td>Booklet</td>
<td>1997</td>
<td>Periodic Annual (Nov.)</td>
</tr>
</tbody>
</table>
Educational Statistics provides various published materials through online services. There are functions for viewing published lists and downloading all files.

1. Select the year of the statistics.

2. Select the type of published materials (i.e., educational statistics, employment statistics, international statistics, or lifelong statistics).
Educational Statistics provides various published materials through online services. There are functions for **viewing published lists** and **downloading all files**.

3. Select from the list according to the type of published material and choice of year.

4. Clicking ‘download all files’ allows you to download compressed files of the published material. When a specific list is selected, a detailed PDF viewer in a list file is supported on the right side. The list files can be downloaded in PDF, EXCEL, or WORD format.
Mobile application can be found in App Store or Google Play Market by typing "education statistics" or "education statistics service" in search.

- Various data services
- Mobile Optimization services
- Customized services
■ Monthly average of 11,432 connected cases (From January to October 2015)

■ Top 3 most frequently accessed Tables and Publications (As of 2014)

<table>
<thead>
<tr>
<th>Table</th>
<th>count</th>
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</thead>
<tbody>
<tr>
<td>&lt;Primary and Secondary Education&gt; Schools of All Levels</td>
<td>10,411</td>
</tr>
<tr>
<td>&lt;Primary and Secondary Education&gt; Schools by Province &amp; Regional scale</td>
<td>10,288</td>
</tr>
<tr>
<td>&lt;Primary and Secondary Education&gt; Schools by Establishment</td>
<td>5,707</td>
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</table>

<table>
<thead>
<tr>
<th>Publications</th>
<th>count</th>
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</thead>
<tbody>
<tr>
<td>&lt;Statistical yearbook of education&gt; Autonomous High School Students -Expelled, Dropouts, and Absentees</td>
<td>2,244</td>
</tr>
<tr>
<td>&lt;Statistical yearbook of education&gt; High School Summary</td>
<td>1,346</td>
</tr>
<tr>
<td>&lt;Statistical yearbook of education&gt; General Status of Schools</td>
<td>1,150</td>
</tr>
</tbody>
</table>
On-line Service

• Educational Statistics Service Homepage(https://kess.kedi.re.kr/eng)

• Educational Statistics provides customized services according to user’s requests

Call center Service  (+82-2-3460-0380, service@kedi.re.kr)

• Please use the resource request sheet available on- and off-line

• User-customized educational statistics call center, operated by professional staffs
### Service Status by Statistical area

<table>
<thead>
<tr>
<th>Classification</th>
<th>Fields</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre-Primary, Primary &amp; Secondary Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Higher Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Employment Status</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lifelong Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>International Education</td>
<td></td>
</tr>
<tr>
<td>Year</td>
<td></td>
<td>Value</td>
</tr>
<tr>
<td>----------------</td>
<td>----------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>2012</td>
<td>1,035</td>
<td>2,066</td>
</tr>
<tr>
<td>2013</td>
<td>1,114</td>
<td>2,469</td>
</tr>
<tr>
<td>2014</td>
<td>1,124</td>
<td>2,295</td>
</tr>
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</table>

### Service Status by the Organization

<table>
<thead>
<tr>
<th>Year</th>
<th>Classification</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Within KEDI</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Governement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Educational Institutions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Research Institute</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Private Institute</td>
<td></td>
</tr>
<tr>
<td></td>
<td>individuals</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Organization/Association</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>274</td>
<td>2,066</td>
</tr>
<tr>
<td>2013</td>
<td>439</td>
<td>2,469</td>
</tr>
<tr>
<td>2014</td>
<td>389</td>
<td>2,295</td>
</tr>
</tbody>
</table>
Education Statistics provide processes

- **Request of Data** (e-mail/call/homepage)
- **Confirmation** (Purpose, Contents, Format, etc.)
- **Security Pledge** (Micro data request)
- **Creating Data**
- **Provision of Data**

- **Data availability notification**
  - Data availability & Delivery date

- **Consulting**
  - Proposal of alternatives
  - Additional provision of statistical data according to the proposed objectives
  - Notes guidance
  - Additional guidance on the criteria of data provision and descriptions

**Micro data provision standards**

<table>
<thead>
<tr>
<th>division</th>
<th>standard</th>
<th>division</th>
<th>standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ministry of education, Education Statistics Division/Assembly/The board of audit and inspection of Korea</td>
<td>Full Provision</td>
<td>Education Institutes, Private Institutes, Individual, etc.</td>
<td>No Provision</td>
</tr>
<tr>
<td>Government departments/Related organizations</td>
<td>Partial Provision</td>
<td>Request of information disclosure &amp; Public Data (Based on the relevant laws and regulations)</td>
<td>Full Provision</td>
</tr>
</tbody>
</table>
Supporting Educational Research and Policies

Center for Educational Statistics / Korean Educational Development Institute

1. Open data of Government 3.0 promotion, Share & links
2. Customized Analysis Services for educations policy support
3. Utilization of policy cases
4. Environmental policy changes & utilization
Open data of Government 3.0 promotion, Share & links

Educational Statistics Survey

- Pre-school, Primary, Secondary Educational Statistics
- Lifelong Educational Statistics
- Higher Educational Statistics
- Statistics Employment of higher education degree-holders

Micro data Link
- Edudata System(EDS)
- Edudata Service System(EDSS)

Result Link
- National Statistics Portal System (National Statistical Office)
- The School Information Service System
- The Academy Information Service System
- National Health Insurance Service
- National Tax Service
- Military Manpower Administration
- Human Resources Development Service of Korea
- Ministry of Justice
- Ministry of Employment and Labor
- Ministry of Health and Welfare
- Student Aid Foundation etc.

- KEDI Statistics of Employment
- National Research Foundation of Korea (NRF: Research data)
- Korean Educational and Research Information Service (KERIS: Library data)
- Korean Foundation for the Promotion of Private School (Budget Accounts)
- Student Aid Foundation (Scholarship)
- DBs from Individual Universities/Colleges
- DB Link (National Health Insurance Service, National Tax Service, Military Manpower Administration, Human Resources Development Service of Korea, Ministry of Justice, Ministry of Employment and Labor, Ministry of Health and Welfare, Student Aid Foundation etc.)

- Survey contents unification (10 local government MOU)
- Survey of lifelong learning individuals: Additional samples & Joint survey

- National Education Information System (NEIS)

- Edudata System(EDS) - Edudata Service System(EDSS)
**Customized Analysis Services for Educational policy support**

1,770 counts (As of September 2015)

<table>
<thead>
<tr>
<th>division</th>
<th>counts</th>
<th>division</th>
<th>counts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic data support for policy and research</td>
<td>387</td>
<td>National policies (university evaluation, financial support, analysis of local education finance, etc.)</td>
<td>80</td>
</tr>
<tr>
<td>Higher authority (Division/Assembly/The board of audit and inspection of Korea/Government departments) requested data</td>
<td>252</td>
<td>Organ. Publications issued</td>
<td>62</td>
</tr>
<tr>
<td>Ministry of Education requested data</td>
<td>537</td>
<td>Administrative statistics</td>
<td>5</td>
</tr>
<tr>
<td>Press</td>
<td>24</td>
<td>Etc</td>
<td>423</td>
</tr>
</tbody>
</table>

**Education policy support ratio: 74.4%**
## Status of each level of data provision

Based on September 2015

<table>
<thead>
<tr>
<th>level</th>
<th>contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-depth analysis in information</td>
<td>• Customized data services : 1,081</td>
</tr>
<tr>
<td></td>
<td>• Issue statistics &amp; press release services : 6</td>
</tr>
<tr>
<td>Index</td>
<td>• Indicator or Index services : 117</td>
</tr>
<tr>
<td></td>
<td>• Issued statistics of publication services : 71</td>
</tr>
<tr>
<td>Micro data</td>
<td>• Micro data services : 937</td>
</tr>
<tr>
<td></td>
<td>• Educational institute address book services : 137</td>
</tr>
<tr>
<td></td>
<td>• Sampling services : 11</td>
</tr>
</tbody>
</table>

※Duplicate counts
Utilization policy cases (1)

School/University Assessment

■ University Evaluation & Financial Support
- Purpose: ① Quantitative Assessment & Verifications
  ② Development of indicators
  (Employment rate, recruitment rate, faculty rate, etc.)

■ World University Rankings (QS) International Comparison
- Purpose: ① Validity verification of statistics data of Korean universities
  ② Development of items for evaluation
Utilization policy cases (2)

Labor/ manpower supply and demand policy

- Provision of population data for the sample design of the Graduate Occupational Mobility Survey (GOMS) (Korea Employment information Service)

- Provision of higher educational time series data for the labor supply and demand outlook by college majors (Korea Employment information Service)

Supporting local governments and associations

- Issuance of publications
  - Social indicator of Korea, Life of woman in statistics, etc. (Statistics Korea)
  - Regional Educations Statistics Yearbook (Gangwon, Gyeongbuk, Gyeonggi province, etc.)
  - Library Yearbook (Korea Library Association)
  - Copyright Statistics (Korea Copyright Commission)
  - Book of Sports (Korea Institute of Sports Science)
  - Book of Young Adults (National Youth Policy Institute)
Utilization policy cases (3)

Other policy supports

- Local education finance analysis
  - Purpose: ① Local Education Finance policy research
  - ② School Account analysis report
  - ③ Local government Educational field survey
  - ④ Local Educations Finance Information DB update
  - ⑤ Local Educations Finance calculation of average grant

- Educational Facilities, Research and Management
  - Purpose: ① The institution of a school & Optimum allocation standard arrangement
  - ② Factor caused school standards for calculating
### Utilization policy cases (4)

#### Basic research data
- School Reform related studies
- Developing future educational system related studies *(Forecasting student numbers etc.)*
- Labor market related studies
- Korean Educational Longitudinal Survey 2005

#### Improvement of university management
- Full-time teacher secured analysis *(Chonnam University)*
- NCS based Curriculum development *(Shingu University)*
- Daejeon Regional Industries and employment strategy *(Hanbat University)*
- International student in Mongolia & Exchange credits with Mongolian *(Mongolia International University)*
Conclusion

Data

Feedback

Information

Knowledge

collect | organize | analyze | summarize | synthesize | prioritize
---|---|---|---|---|---
Micro Data | Statistics chart | Issues analysis report | Comprehensive Reports | Result of decision making

Issues, Questions, Problem