KOREA: ESTIMATES OF SUPPORT TO AGRICULTURE

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DEFINITIONS AND SOURCES

Table 1. Agricultural Support Estimates / Total Transfers contains country Total Support Estimate (TSE) and derived indicators, which cover all agricultural production, i.e. all agricultural commodities produced in the country. Definitions of basic data sets refer to the specific programmes applied in the country. For the Producer Support Estimate (PSE) and Consumer Support Estimate (CSE), each policy measure is classified according to implementation criteria, which include: the transfer basis of support (output, input, area/animal numbers/receipts/income, and non-commodity criteria); whether support is based on current or non-current basis; whether production is required or not to receive payment. Each policy measure is also assigned several “labels” indicating additional implementation criteria. "MPS commodities”, which vary across countries, are those for which the market price support is explicitly calculated in Tables 4.1 – 4.12.

Table 2. Breakdown of PSE by Commodity and Other Transfers provides a breakdown of the total PSE into four categories reflecting the flexibility given to farmers regarding which commodity to produce within the various policy measures. These categories are: Single Commodity Transfers (SCT); Group Commodity Transfers (GCT); All Commodity Transfers (ACT); and Other Transfers to Producers (OTP). All data sets in Table 2 come from Tables 1 and 3.1 – 3.12 where definitions are included.

Tables 3.1 – 3.12 Producer Single Commodity Transfers contain producer SCT by commodity, which are calculated for Korea for the following commodities: barley, rice, soybeans, milk, beef and veal, pig meat, poultry meat, eggs, garlic, Chinese cabbage, garlic and red peppers (Tables 3.1-3.11). In addition, SCT for “other commodities” is also calculated (Table 3.12), which covers transfers to single commodities other than MPS commodities. All data sets in the calculation of producer SCT by commodity come from Tables 1 and 4.1-4.12 where definitions are included.

Tables 4.1 – 4.12 contain Market Price Support (MPS) and Consumer Single Commodity Transfers (consumer SCT) by commodity, calculated for the same set of commodities as Tables 3.1 to 3.12. Definitions are provided only for basic data sets from which all the other data sets in this table are derived.

Definitions of the indicators, criteria for classification of policy transfers included in support estimation, and methods of calculation are contained in the PSE Manual (OECD’s Producer Support Estimate and Related indicators of Agricultural Support: Concepts, Calculations, Interpretation and Use).
TABLE 1: KOREA: TOTAL SUPPORT ESTIMATE

Definitions:

I. Total value of production (at farm gate): Total agricultural production valued at farm gate prices, i.e. value (at farm gate) of all agricultural commodities produced in the country [1].

I.1. Of which share of MPS commodities (%): Share of commodities for which MPS is explicitly calculated (in Tables 4.1-4.11) in the total value of agricultural production.

II. Total value of consumption (at farm gate): Consumption of all commodities domestically produced valued at farm gate prices, and estimated by increasing the value of consumption (at farm gate) of the MPS commodities according to their share in the total value of agricultural production [(II.1) / (I.1) x100].

II.1. Of which MPS commodities: Sum of the value of consumption (at farm gate prices) of the MPS commodities as indicated in Tables 4.1-4.11.

III.1 Producer Support Estimate (PSE): Associated with total agricultural production, i.e. for all commodities domestically produced [Sum of A to G; when negative, the amounts represent an implicit or explicit tax on producers].

A. Support based on commodity output

A.1. Market Price Support: On quantities domestically produced (excluding for on-farm feed use -- Excess Feed Cost) of all agricultural commodities, estimated by increasing the MPS for the MPS commodities according to their share in the total value of production by commodity group [for each commodity group: (ΣMPS for MPS commodities) / (ΣVP for MPS commodities) x VP for total group; the total MPS is then calculated as the sum of MPS by commodity group]. For Korea, a single commodity group is considered.

A.2. Payments based on output

Deficiency payment programme for wine grapes

Period of implementation: 1989-1992
Payment per tonne calculated as the difference between the government-administered price and the international price at which producers sell grapes to wine manufacturers. It applied to all sales to manufacturers.
Use of labels: Production limits: NO; Variable payment rates: YES; Input constraints: NO.
These transfers are included in the other (wine) SCT (Table 3.12).

B. Payments based on input use

B.1. Payments based on variable input use

Credit concessions

Period of implementation: from 1986
Budget expenditures on grants and loans with reduced interest rates from the Livestock Industry Development Fund (LIDF) to help livestock farmers to buy inputs such as animals and feed, or to reclaim and establish pastures and to help them to produce grass efficiently.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO. These transfers are included in the all livestock GCT.

Payments to fertiliser and pesticide use
Period of implementation: 1989-2012
Budget expenditures from the General Account to compensate the NACF for its losses in selling fertilisers at a subsidised price and in handling and selling pesticides to farmers.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO. These transfers are included in the all livestock GCT.

Payments to irrigation
Period of implementation: from 1987
Half of the budget expenditures from the General Account to support the operational cost of the former Farmland Improvement Association (merged into Korean Agricultural and Rural Infrastructure Corporation in Jan. 2000) which was in charge of operating and maintaining larger irrigation facilities (see also IV.K Infrastructure).
Use of labels: Production limits: NO; Variable payment rates: NO; Input constraints: NO. These transfers are included in the all crop GCT.

Payments to seeds
Period of implementation: from 1986
Budget expenditures from the General Account to producers’ group to install collective seedling facilities for rice and vegetables. Net losses of the seed projects of the Rural Development Administration (RDA) in producing and distributing certified seeds.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO. These transfers are included in the all crop GCT.

Soil conservation programme
Period of implementation: from 1986
Budget expenditures to provide lime and silicic acid to farmers to reclaim damaged soils.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO. These transfers are included in the all crop GCT.

Interest subsidy for natural disasters
Period of implementation: from 1986
Half of the budget expenditures for providing reduced interest rate of loans to low-income farmers who suffered losses from the natural disaster.
Use of labels: Production and payment limits: NO; Variable payment rates: YES; Input constraints: NO. These transfers are included in the ACT.

B.2. Payments based on fixed capital formation

Credit concessions
Period of implementation: from 1986
Budget expenditures on grants and loans to farmers with reduced interest rates:
  - from the LIDF to promote farm-level structural adjustment.
  - from the General Account, the Agriculture and Fisheries Development Fund and the Special Account for Agro-Fisheries and Rural Structure Improvement to develop mechanisation in Korean agriculture, to increase the size of farms, to promote investments in farming equipment and facilities.
to improve farm land structures and to restore damaged farmland. It also includes specific preferential loans to help young farmers to start business.

Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO
These transfers are included in the ACT.

Management of livestock wastes programme
Period of implementation: from 1990
Budget expenditures on grants and preferential loans to livestock producers to install purification facilities.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: YES (the environmental effects should be considered when making purification facilities).
These transfers are included in the all livestock GCT.

Creation of model towns of environment-friendly farming
Period of implementation: from 1999
Budget expenditures on grants to farmers of a village who are practicing environmentally friendly farming by a village unit.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: YES (the use of chemical fertiliser is controlled).
These transfers are included in the ACT.

Direct payment for environmentally-friendly livestock practice
Period of implementation: 2004-06
Direct payment to livestock farmers who undertake environmentally-friendly practices including recycling a certain amount of livestock manure and decreasing raising density of pigs and chicken. Antibiotics are prohibited for a certain period before slaughtering.
Use of labels: Production limits: NO; Variable payment rates: NO; Input constraints: YES (the use of antibiotics and chemical fertiliser is controlled and the recycling of livestock manure is promoted).
These transfers are included in the all livestock GCT.

Support for the losses from natural disasters
Period of implementation: from 1986
Half of budget expenditures for providing reduced interest rate of loans to low-income farmers who suffered losses from the natural disaster.
Use of labels: Production and payment limits: NO; Variable payment rates: YES; Input constraints: NO
These transfers are included in the ACT.

B.3. Payments based on on-farm services

Extension services
Period of implementation: from 1986
Budget expenditures to provide technical assistance to livestock breeders (financed by the LIDF) and for the development of region-specific technologies (financed by the Special Account for Agro-Fisheries and Rural Structure Improvement and the RDA). Non-commodity specific LIDF expenditures are allocated to individual livestock products based on their share in the value of total livestock production.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO
These transfers are included in the ACT.

Pest and disease control
Period of implementation: from 1986
Budget expenditures of the NACF to provide manufacturers with agro-chemicals in case of pest outbreak, and budget expenditures to prevent and control outbreaks of "black stem blight" through spraying pesticides.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO
These transfers are included in the all crops GCT.

Animal reproduction
Period of implementation: from 1986
Budget expenditures on programmes financed by the LIDF to improve livestock quality. They include artificial insemination, productivity tests and the provision of imported high quality breeds. Support for the provision of silk eggs to farmers.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO
These transfers are included in the beef and milk GCT.

C. Payments based on current area planted/animal numbers/receipts/income – production required

Milk reduction programme
Payments per head of dairy cattle provided to dairy farmers who reduced their milk production.
Use of labels: Production and payment limits: YES (Payments are to reduce milk production); Variable payment rates: NO; Input constraints: NO.
These transfers are included in the Milk SCT (Table 3.4).

Variable payment for paddy-fields
Period of implementation: 2005-19
Payments per hectare on paddy fields which are used to produce rice in the current year.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO
These transfers are included in the Rice SCT (Table 3.2).

Meat quality enhancement programmes (Beef, pig meat)
Payments per head of animal to encourage beef production (before 1984) and to encourage high quality beef and pig meat production (from 1993).
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO
These transfers are included in the beef and pig meat GCT.

Payment for set-aside
Period of implementation: 2003-05
Payments per hectare to farmers who set aside paddy rice field or cease to plant paddy rice or any marketable crops for the next three years.
Use of labels: Production and payment limits: YES (Payments are to retire land from production for three years); Variable payment rates: NO; Input constraints: NO.
These transfers are included in the all crops GCT.

Direct payment for environment-friendly farming practices
Period of implementation: from 1999
Payments per hectare to farmers who conform to environmentally friendly farming practices. The scheme has been differentiated between low chemical, chemical-free and organic products since 2003.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: YES (the use of chemical fertiliser is controlled).
These transfers are included in the all crops GCT.

Paddy-field environmental conservation payment
Period of implementation: 2001-04
Payments per hectare to farmers who had cultivated paddy fields for the past three years and conformed to good environmental practices.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: YES (the use of chemical fertiliser is controlled).
These transfers are included in the all crops GCT.

Direct payment for landscape conservation
Period of implementation: from 2005
Payments per hectare to farmers who cultivate plants for aesthetic purposes to preserve traditional landscape in selected villages.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO
These transfers are included in the all crops GCT.

Disaster payments
Period of implementation: from 1986
Income support to low-income farmers who suffered losses from natural disasters in the form of food aid or lump sum payments.
Use of labels: Production and payment limits: NO; Variable payment rates: YES (Payment rates vary according to the severity of damage by natural disasters); Input constraints: NO.
These transfers are included in the ACT.

Crop insurance
Period of implementation: from 2001
Government contribution to commodity-based agricultural insurance programs.
Use of labels: Production and payment limits: NO; Variable payment rates: YES; Input constraints: NO
These transfers are included in the all crops GCT.

Social programmes
Period of implementation: from 1986
Income support from the General Account to low-income, small farmers’ and fishermen’s households to reduce their debt burden; government contribution through the Special Account for Agro-Fisheries and Rural Structure Improvement to an insurance scheme for farmers related to working accidents. Tuition for rural students is not included.
Use of labels: Production and payment limits: NO; Variable payment rates: NO; Input constraints: NO
These transfers are included in the ACT.

D. Payments based on non-current area planted/animal numbers/receipts/income – production required

No payment in this category.

E. Payments based on non-current area planted/animal numbers/ receipts/income – production not required

Payment for less favoured areas
Period of implementation: 2004-19
Payments per hectare to farmers who actually reside and cultivate a land in the past 3 years in the naturally disadvantageous villages in “remote rural areas”. The eligible villages are selected, where the share of arable land is below 22% and the land gradient is over 14%.
Use of labels: Variable payment rates: YES; Input constraints: NO; Commodity exceptions: NO.
These transfers are included in Other transfers to producers (OTP).
**Fixed payment for paddy-field**

*Period of implementation: 2005-19*

Payments per hectare on paddy fields cultivated during the period of 1998-2000. There are no restrictions on current production. The land may be used to produce agricultural products or placed in set-aside.

Use of labels: Variable payment rates: YES; Input constraints: NO; Commodity exceptions: NO.

These transfers are included in Other transfers to producers (OTP).

**New direct payment programme**

*Period of implementation: from 2020*

Payments per hectare on farmland. (Payments for less favoured areas and variable and fixed payments for paddy-field were combined into the new programme in 2020) There are no restrictions on current production. Payment shall be reduced when environmental cross-compliance requirements are not met.

Use of labels: Variable payment rates: No; Input constraints: NO; Commodity exceptions: NO.

These transfers are included in Other transfers to producers (OTP).

**F. Payments based on non-commodity criteria**

**F.1. Payments based on long-term resource retirement**

*Fruit acreage reduction programmes*

*Period of implementation: from 1990*


These transfers are included in Other transfers to producers (OTP).

**F.2. Payments based on specific non-commodity output**

No payment in this category.

**F.3. Payments based on other non-commodity criteria**

No payment in this category.

**G. Miscellaneous payments**

No payment in this category.

**III.2 Percentage PSE**  
\[100 \times (\text{III.1}) / ((I) + (\text{Sum of A2 to G}))\]

**III.3 Producer NPC:** For all agricultural commodities the producer NPC is estimated as a weighted average of the producer NPC calculated for the individual MPS commodities and shown in Table 4. For each commodity Producer NPC = [domestic price received by producers (at the farm gate) + unit payments based on output] / border price (also at the farm gate).

**III.4 Producer NAC**  
\[1 / (100 - (\text{III.2})) \times 100\]

**IV. General Services Support Estimate (GSSE):** total budgetary expenditure to support general services provided to agriculture [Sum of H to M].

**H. Agricultural Knowledge and Innovation System**
**H.1. Agricultural Knowledge Generation:** Budget expenditures on research programmes financed by the General Account of the RDA, the Special Account for Agro-Fisheries and Rural Structure Improvement, and the LIDF.

- **Kanghwa area’s Hanwoo meat producing programme**  
  Period of implementation: 1986-95  
  Budget expenditure.

- **Technology development for high quality Hanwoo beef production**  
  Period of implementation: 1993-97  
  Budget expenditure.

- **Operation of Hanwoo Quality Improvement Center**  
  Period of implementation: from 1982  
  Budget expenditure.

- **Operation of "Hanwoo" quality improvement complex**  
  Period of implementation: 1986-2005  
  Budget expenditure.

- **Pig productivity test and breeding improvement programme**  
  Period of implementation: from 1989  
  Budget expenditure.

- **Chicken productivity test and breeding improvement programme**  
  Budget expenditure.

- **Milking productivity test and dairy cattle improvement programme**  
  Period of implementation: 1986-2005  
  Budget expenditure.

- **Statistics survey on agriculture**  
  Period of implementation: from 1986-2011, from 2015  
  Budget expenditure.

- **Support for KREI’s research**  
  Period of implementation: 1986-99  
  Budget expenditure.

- **Research on development for agro-fishery and forestry (Agriculture and forestry technology development)**  
  Period of implementation: from 1994  
  Budget expenditure.

- **Research on development for agro-fishery and forestry (Development of high value-added food technology)**  
  Period of implementation: from 2009  
  Budget expenditure.

- **Research for consolidating production base in rural areas**  
  Period of implementation: from 1994
Budget expenditure.

Survey and research on livestock industry
Period of implementation: from 1986
Budget expenditure.

Research and development of utilization of feed resources
Period of implementation: 1986-88
Budget expenditure.

Improvement of breeding stock facilities
Period of implementation: 1986-88, 2008-14
Budget expenditure.

Breeding livestock registration programme
Period of implementation: from 1986
Budget expenditure.

Breeding stock improvement programme
Period of implementation: 1986-94
Budget expenditure.

Computarization of cattle registration
Period of implementation: 1986-99
Budget expenditure.

Agricultural science & technology research
Period of implementation: from 1986
Budget expenditure.

Veterinary research
Budget expenditure.

Wheat & Barley research
Period of implementation: 1986-91
Budget expenditure.

Crop research
Period of implementation: from 1986
Budget expenditure.

Local specific agriculture research
Period of implementation: 1986-2003
Budget expenditure.

Livestock production technology research
Period of implementation: from 1986
Budget expenditure.

Researches on livestocks and horticultural crops in Cheju island
Period of implementation: 1986-2011
Budget expenditure.

*Agricultural bio-industrialization research*
Period of implementation: 1995
Budget expenditure.

*Agricultural environment research*
Period of implementation: 1996, from 2008
Budget expenditure.

*Bio-resources research*
Period of implementation: 1996, from 2002
Budget expenditure.

*Crop protection research*
Period of implementation: from 2008
Budget expenditure.

*Research on animal disease and livestock product safety*
Period of implementation: 1996
Budget expenditure.

*Research on development of high-yield variety and efficient cultivating*
Period of implementation: 1996
Budget expenditure.

*Agricultural technology development research*
Period of implementation: 1996
Budget expenditure.

*Support for research facilities for local research center*
Period of implementation: from 1996
Budget expenditure.

*Research on animal quarantine technology*
Period of implementation: 1996-98
Budget expenditure.

*Research on plant quarantine technology*
Period of implementation: 1996-2004
Budget expenditure.

*Agricultural mechanisation research*
Period of implementation: 1986-99, from 2002
Budget expenditure.

*Research on grain polishing and storage*
Period of implementation: 1986-95
Budget expenditure.

*Agro-chemical research*
Budget expenditure.

*Contribution to Korea Food Research Institution*
Period of implementation: 1988-99
Budget expenditure.

*Silkworm research*
Period of implementation: 1986-94
Budget expenditure.

*Sericulture research*
Period of implementation: 1986-95
Budget expenditure.

*Agricultural research for highland areas*
Period of implementation: 1986-2011
Budget expenditure.

*Horticultural research*
Period of implementation: from 1986
Budget expenditure.

*Fruit cultivation research*
Budget expenditure.

*Research on vegetable and horticulture*
Period of implementation: 1996
Budget expenditure.

*Research on sericulture and entomology*
Period of implementation: 1996-98
Budget expenditure.

*Administrative cost for KICAFF*
Period of implementation: 1992-2002
Budget expenditure.

*Administrative management of agricultural research*
Period of implementation: 1989-95, from 2001
Budget expenditure.

*Research on genetics*
Budget expenditure.

*Pilot Programme for organic livestock farming*
Period of implementation: 2003-05
Budget expenditure.

*Bio-organic production*
Period of implementation: 2005-06, 2008-11
Budget expenditure.

**Agricultural college research facility support programme**  
Period of implementation: 1996-2005  
Budget expenditure.

**H.2. Agricultural Knowledge Transfer**

Budget expenditures to finance facilities, equipment and operational cost of agricultural schools and colleges, to retrain young full-time farmers and farmers enrolled in an early-retirement programme, and to disseminate information and new technologies.

**H2.a. education**

*Meal provision for high school students under vocational training*  
Period of implementation: 1986-2004  
Budget expenditure.

*Education for young farmers and fishers*  
Period of implementation: from 1990  
Budget expenditure.

*Support for training facilities of agricultural and fisheries schools*  
Period of implementation: 1993-99  
Budget expenditure.

*Vocational training for farmers and fishermen for occupational change*  
Period of implementation: 1990-93  
Budget expenditure.

*Support of establishment of high-tech agricultural center*  
Period of implementation: 1998-2000  
Budget expenditure.

**H2.b. extension services**

*Extension services of agricultural techniques and living standard improvement*  
Period of implementation: from 1986  
Budget expenditure.

*Support for management consulting on farming*  
Period of implementation: from 1999  
Budget expenditure.

*Sericulture training*  
Period of implementation: prior to 1986  
Budget expenditure.

*Extension services of technology development for on-site farming*  
Period of implementation: 2006-08  
Budget expenditure.
Improvement of information and communication environment for agriculture
Period of implementation: from 1999
Budget expenditure.

I. Inspection and Control

I.1. Agricultural product safety and inspection

Budget expenditures on inspection services of agricultural products (financed by the General Account or the Special Account for Agro-Fisheries and Rural Structure Improvement).

Agricultural products inspection services
Period of implementation: from 1986
Budget expenditure.

Agricultural products warranty programme
Period of implementation: from 1994
Budget expenditure.

Inspection of raw milk and pesticide residues on livestock products
Budget expenditure.

Agricultural products safety inspection
Period of implementation: from 1996
Budget expenditure.

I.2. Pest and disease inspection and control

Budget expenditures of local governments to support and execute the air spraying of pesticides in order to control pests, and on plant and animal quarantine services.

Animal disease prevention and control programme
Period of implementation: from 1986
Budget expenditure.

Pest control
Period of implementation: 1986-97
Budget expenditure.

I.3. Input control

Budget expenditures on inspection services of agricultural chemicals and machinery (financed by the General Account)

Agricultural chemicals and animal drugs examination service
Period of implementation: 1986-2003
Budget expenditure.

Inspection services of agricultural chemicals and machinery
Period of implementation: from 2008
Budget expenditure.
Feed inspection
Period of implementation: 1986-2006
Budget expenditure.

J. Development and maintenance of Infrastructure

J.1. Hydrological Infrastructure
Budget expenditures from the General Account and the Special Account for Agro-Fisheries and Rural Structure Improvement to develop irrigation and drainage, to improve water supply.

Tideland reclamation in southwestern coast
Period of implementation: 1986-2016
Budget expenditure.

Rearrangement of upland productivity
Period of implementation: from 1992
Budget expenditure.

Land rearrangement programme
Period of implementation: from 1986
Budget expenditure.

Large scale comprehensive agricultural development programme
Period of implementation: from 1986
Budget expenditure.

1/2 Support for the irrigation facilities management of KARICO
Period of implementation: from 1988
Budget expenditure.

Large scale land reclamation
Period of implementation: 1986
Budget expenditure.

Reclamation of upland into rice paddies
Period of implementation: before 1980
Budget expenditure.

Irrigation water development programme
Period of implementation: from 1986
Budget expenditure.

Restoration of damaged farmland and irrigation facilities
Budget expenditure.

Drainage improvement programme
Period of implementation: from 1986
Budget expenditure.

Water supply facilities repair programme
Period of implementation: from 1991
Budget expenditure.

Reinforcement of agricultural production foundation programme
Period of implementation: 2001-09
Budget expenditure.

Tele-control of irrigated water supply
Period of implementation: from 2001
Budget expenditure.

J.2. Storage, marketing and other physical infrastructure

Budget expenditures from the General Account and the Special Account for Agro-Fisheries and Rural Structure Improvement to support the construction of equipment and facilities for upstream industries (e.g. feed, machinery) and downstream industries (RPCs, wholesale markets, marketing).

Tideland reclamation in southwestern coast
Period of implementation: 1986-2016
Budget expenditure.

Rearrangement of upland productivity
Period of implementation: from 1994
Budget expenditure.

Farm road enlargement and pavements works
Period of implementation: from 1995
Budget expenditure.

Formation of environmentally friendly agricultural zones
Period of implementation: 1998-2013
Budget expenditure.

Comprehensive development of green rural villages
Period of implementation: 2002-12
Budget expenditure.

Comprehensive Development Program for Rural Community
Period of implementation: 2004-14
Budget expenditure.

Regional Agriculture Cluster Programme
Period of implementation: from 2005
Budget expenditure.

Assistance to upstream industries (input production facilities)
Period of implementation: from 1986
Budget expenditure.

Assistance to downstream industries (processing facilities)
Period of implementation: from 1986
Budget expenditure.
J.3. Institutional infrastructure
There is no budget expenditure in this category.

J.4. Farm restructuring
Budget expenditures on farmers’ retirement programmes.

Ginseng industry structural adjustment programme (support to industry)
Period of implementation: from 1996
Budget expenditure.

1/2 Structural adjustment for flowers production and marketing
Period of implementation: 1986-93, 1996
Budget expenditure.

Farmers' retirement programme
Period of implementation: from 1997
Budget expenditure.

Farmers' educational facilities construction programme
Period of implementation: 1988, 1995-97
Budget expenditure.

Livestock farmers’ educational facilities construction programme
Period of implementation: 1995-98
Budget expenditure.

K. Marketing and promotion

K.1. Collective schemes for processing and marketing
K.2. Promotion of agricultural products
Budget expenditures on domestic promotion programmes for various agricultural products such as wheat, fruits and vegetables, flowers and processed traditional products.

Support for promotion of wheat
Period of implementation: 1994-96
Budget expenditure.

Export promotion programme for fruits, flowers and processed traditional products (export infrastructure)
Period of implementation: from 1990
Budget expenditure.

Export promotion programme for fruits and flowers (export sales)
Period of implementation: from 1990
Budget expenditure.

Flowers sale promotion programme
Period of implementation: 1989-90, 1996-97
Budget expenditure.
Development of special agricultural products
Period of implementation: 1999-2002
Budget expenditure.

L. Cost of Public stockholding

Net budget expenditures of the Special Account for Food Grain Management, the Food Grain Management Fund and the Food Grain Stock Management Fund for the handling and the storage of crops by the Government or the NACF.

Government purchase of cereal for public stockholding
Period of implementation: 1986-2013
Budget expenditure.

Misc. cost of government purchase
Period of implementation: 1986-95, 1997-2000
Budget expenditure.

Cereals sales management programme
Period of implementation: 1986-95
Budget expenditure.

Government cereal handling (Government management)
Period of implementation: from 1986
Budget expenditure.

Government cereal handling
Period of implementation: 1986-97
Budget expenditure.

Government cereal management facilities
Period of implementation: 1986-91
Budget expenditure.

Maintenance of cereals storage and processing facilities
Period of implementation: 1986-96
Budget expenditure.

Buffer stock management programme (purchase and storage cost)
Period of implementation: from 1986
Budget expenditure.

M. Miscellaneous

V.1 Consumer Support Estimate (CSE): Associated with agricultural production, i.e. for the quantities of commodities domestically produced, excluding the quantities used on-farm as feed -- excess feed cost. [Sum of N to Q; when negative, the amounts represent an implicit tax on consumers].

N. Transfers to producers from consumers (TPC): Associated with market price support on all domestically produced commodities, estimated by increasing the transfers calculated for the MPS commodities according to their share in the total value of production by commodity group [for each commodity group: (Σ TPC for MPS commodities) / (ΣVP for MPS commodities) x VP for total group; the
total TPC is then calculated as the sum of TPC by commodity group. For the list of commodity groups, see Section A.1. Market Price Support within this Table 1.

N. Of which MPS commodities: Sum of the values of transfers from consumers to producers associated with market price support for the MPS commodities as calculated in Tables 4.1 to 4.11.

O. Other transfers from consumers (OTC): Transfers to the budget associated with market price support on the quantities imported of domestically produced commodities, estimated by increasing the transfers calculated for the MPS commodities according to their share in the total value of production by commodity group [for each commodity group: (Σ OTC for MPS commodities) / (ΣVP for MPS commodities) x VP for total group; the total OTC is then calculated as the sum of OTC by commodity group. For the list of commodity groups, see Section A.1. Market Price Support within this Table 1].

O.1. Of which MPS commodities: Sum of the transfers to the budget associated with market price support on the quantities imported of the MPS commodities as calculated in Tables 4.1 to 4.11.

P. Transfers to consumers from taxpayers

P.1. Commodity specific transfers to consumers: Sum of commodity specific transfers from taxpayers to consumers (farm gate level) from Tables 4.1 - 4.12, including:

School milk scheme
Period of implementation: from 1986
Students from low income household are eligible to receive government subsidy for the daily milk consumption at school. The target group has been expanded gradually from elementary school to middle and high school since 2005. The government support 70% of the price and around 374 000 students were supported in 2007.

Soybeans subsidy
Period of implementation: 1991-92
Payments

Beef Price Stabilisation Programme
Period of implementation: 1986-90; 1996-98
Payments and interest concession on loans

Pigmeat reserve programme
Period of implementation: 1986, 1990
Payments

Dairy products storage programme
Payments

NLCF Hanwoo marketing enhancement programme
Period of implementation: 1993-96
Payments and interest concession on loans

Pig purchase
Interest concession on loans
**Milk purchase**  
*Period of implementation: 1998*  
Interest concession on loans

**Compensation for corn purchase**  
*Period of implementation: 1990-2002*  
Payments and interest concession on loans

**Compensation for feed corn purchase**  
*Period of implementation: 1991-92*  
Payments.

**Compensation for rapeseed purchase**  
*Period of implementation: 1991-97*  
Payments.

**Compensation for losses incurred during rice purchase by the NACF**  
*Period of implementation: 1986-2006*  
Payments.

The programmes below include budget expenditures to cover part of operational costs of co-operatives and/or downstream companies and to compensate them for purchasing most agricultural products at a higher price than they sell them in order to operate price stabilisation programmes. These programmes are thus commodity specific. The total expenditure is allocated by commodity using the share in the value of production.

Expenditures are financed by the LIDF for livestock products; by the Agriculture and Fisheries Development Fund, the Special Account for Agro-Fisheries and Rural Structure Improvement for corn, soybeans and rapeseed; and by the Food grain Management Fund or the Special Account for Food grain Management for cereals.

**Support for the business fund of regional livestock co-operatives**  
*Period of implementation: 1990-92, 1999-2003*  
Interest concession on loans.

**Loans for livestock products marketing**  
*Period of implementation: 1986-95; 1998-2000*  
Interest concession on loans.

**NLCF’s livestock products marketing fund**  
*Period of implementation: 1986-95*  
Interest concession on loans.

**Vegetable marketing facilitation**  
*Period of implementation: 1995-2008*  
Interest concession on loans. Allocated to

**Agricultural products marketing support**  
*Period of implementation: since 1986*  
Interest concession on loans.
P.2. Non-commodity specific transfers to consumers: Sum of non-commodity specific transfers from taxpayers to consumers, including:

Q. Excess Feed Cost: Associated with market price support on quantities of domestically produced crops and used on-farm as feed as calculated (Sum of Excess Feed Cost in the MPS Tables 4.1 and 4.2).

V.2 Percentage CSE \[100 \times \frac{(V.1)}{((II) + (P))}\]

V.3 Consumer NPC: For all agricultural commodities the consumer NPC is estimated as a weighted average of the consumer NPC calculated for the individual MPS commodities and shown in Table 2. For each commodity consumer NPC = domestic price paid by consumers (at the farm gate)/ border price (also at the farm gate).

V.4 Consumer NAC \[\frac{1}{100 - (V.2)} \times 100\]

VI. Total Support Estimate \[(III.1) + (IV) + (P)\] and \[(R) + (S) - (T)\]

R. Transfers from consumers \[(N) + (O)\]

S. Transfers from taxpayers \[(III.1)(N) + (IV) + (P)\]

T. Budget revenues \[(O)\]
TABLE 2. KOREA: BREAKDOWN OF PSE BY COMMODITY SPECIFICITY AND OTHER TRANSFERS

All data sets in Table 2 to come from Tables 1 and 3.1 to 3.12 where definitions are included.

Definitions:

I. **Producer Single Commodity Transfers (producer SCT):** the annual monetary value of gross transfers from consumers and taxpayers to agricultural producers, measured at the farm level, arising from policy measures directly linked to the production of a single commodity such that the producer must produce the designated commodity in order to receive the payment. This includes policies where payments are specified on a per-commodity basis [Sum of SCTs for individual commodities from Tables 3.1-3.12].

\[
\%\text{SCT} = 100 \ast \frac{\text{SCT}}{(\text{Value of production}_{\text{COM}} + A_{\text{COM}} + B_{\text{COM}} + C_{\text{COM}} + D_{\text{COM}})}
\]

**Share in Total PSE (%):** \(\text{SCT}_{\text{SHARE}} = 100 \ast \frac{\text{SCT}}{\text{PSE}}\)

II. **Group commodity transfers (GCT):** the annual monetary value of gross transfers from consumers and taxpayers to agricultural producers, measured at the farm gate level, arising from policy measures whose payments are made on the basis that one or more of a designated list of commodities is produced. That is, a producer may produce from a set of allowable commodities and receive a transfer that does not vary with respect to this decision \([\text{GCT} = B_{\text{GROUP}} + C_{\text{GROUP}} + D_{\text{GROUP}}]\).

**Share in Total PSE (%):** \(\text{GCT}_{\text{SHARE}} = 100 \ast \frac{\text{GCT}}{\text{PSE}}\)

**Transfers to specific groups of commodities:** the GCT indicator is calculated for Australia for the following groups of commodities: All crops, fruits and vegetables, all livestock, and ruminants.

III. **All commodity transfers (ACT):** the annual monetary value of gross transfers from consumers and taxpayers to agricultural producers, measured at the farm gate level, arising from policy measures that place no restrictions on the commodity produced but require the recipient to produce some commodity of their choice \([\text{ACT} = C_{\text{ALL}} + B_{\text{ALL}} + D_{\text{ALL}}]\).

**Share in Total PSE (%):** \(\text{ACT}_{\text{SHARE}} = 100 \ast \frac{\text{ACT}}{\text{PSE}}\)

IV. **Other Transfers to Producers (OTP):** the annual monetary value of gross transfers made under policies that do not fall in the above three cases (SCT, GCT, ACT). That is, payments that do not require any commodity production at all. \([\text{OTP} = E + F + G]\)

**Share in Total PSE (%):** \(\text{OTP}_{\text{SHARE}} = 100 \ast \frac{\text{OTP}}{\text{PSE}}\)

V. **Total PSE:** \(\text{PSE} = A + B + C + D + E + F + G = \text{SCT} + \text{GCT} + \text{ACT} + \text{OTP}\)
Percentage PSE: \( \% \text{PSE} = \frac{100 \times \text{PSE}}{\text{Total Value of Production at farm gate} + A.2 + B + C + D + E + F + G} \)
TABLE 3. KOREA: PRODUCER SINGLE COMMODITY TRANSFERS (BY COMMODITY)

Tables 3.1 to 3.12 provide information on Producer Single Commodity Transfers (PSCT) for the following commodities: barley, rice, soybeans, milk, beef and veal, pig meat, poultry meat, eggs, Chinese cabbage, garlic, red peppers and “other commodities”. All data sets in the calculation SCT by commodity come from Tables 1 and 4.1 – 4.11 where definitions are included.

Definitions:

I. **Level of production:** Data from respective commodity Tables 4.1 – 4.11 (Market Price Support tables)

II. **Value of production (at farm gate):** Data for respective commodity Tables 4.1 – 4.11 (Market Price Support tables)

III. **Producer Single Commodity Transfers:** Sum of transfers to respective single commodity in categories A, B, C and D.

A. **Support based on commodity output**

A1. **Market Price Support** [Data for respective commodity from Table 4]

A2. **Payments based on output**

Payments based on output (A.2) provided to respective single commodity [Data from Table 1]

B. **Payments based on input use, single commodity** [B.1\textsubscript{COM} + B.2\textsubscript{COM} + B.3\textsubscript{COM}]

B1. **Based on variable input use**

Payments based on variable input use (B.1\textsubscript{COM}) provided to respective single commodity [Data from Table 1].

B2. **Based on Fixed capital formation**

Payments based on fixed capital formation (B.2\textsubscript{COM}) provided to respective single commodity [Data from Table 1].

B3. **Based on on-farm services**

Payments based on on-farm services (B.3\textsubscript{COM}) provided to respective single commodity [Data from Table 1].

C. **Payments based on current A/An/R/I, production required, single commodity**
Payments based on current A/An/R/I ($C_{COM}$) provided to respective single commodity [Data from Table 1].

**D. Payments based on non-current A/An/R/I, production required, single commodity**

Payments based on non-current A/An/R/I, production required ($D_{COM}$) provided to respective single commodity [Data from Table 1].

**IV. Percentage producer SCT:**

$$\%SCT = \frac{100 \times (III)}{(II) + (A.2) + (B_{COM}) + (C_{COM}) + (D_{COM})}$$
TABLE 4. KOREA: MARKET PRICE SUPPORT AND CONSUMER SINGLE COMMODITY TRANSFERS

Tables 4.1 to 4.12, contain calculation of the Market Price Support (MPS) and Consumer Single Commodity Transfers (consumer SCT) for the following commodities: barley, rice, soybeans, milk, beef and veal, pig meat, poultry meat, eggs, Chinese cabbage, garlic, red peppers and “other commodities”. The data sets used in calculation of the MPS and consumer SCT by commodity are described below. Values for “other commodities” are derived using information on total Market Price Support and Value of Production, and individual commodity data.

Definitions:

1. Barley

I. Level of production

Total production of unhulled barley, naked barley and malting barley in unhulled barley equivalent [1]


II. Producer prices (at farm gate)

Weighted average of government purchase prices (unhulled and naked barley), government administered price (malting barley) and voluntarily marketed farm gate price of barley.

Source: [III] / [I].

III. Value of production (at farm gate)

Sum of the Value of freely marketed unhulled barley, naked barley and malting barley, plus the Value of government purchasing [3].


IV. Trade status

Net importer through the whole period.

Source: Production minus consumption (I) - (IV).

V. Market price differential at the farm gate

Producer price minus reference price (II) – (VII)
VI. Reference prices at the farm gate (including the definition of the margin)

Weighted average of import reference prices for unhulled barley and malting barley. For unhulled barley, from 1979 to 1994, the US export price of second grade barley, f.o.b., (annual average price of Portland cash grain price) plus transportation costs (9.48 per cent) [7] and from 1995, the Korean average import price of ordinary barley in unhulled equivalent, c.i.f. [8]. For malting barley, from 1979 to 1988, the average Japanese price of malting barley imported from Australia [9] and from 1989, the Korean average import price of malting barley in unhulled equivalent, c.i.f. [8].

Sources:

VII. Level of consumption (at farm gate)

Total domestic consumption of barley for food and feed use in unhulled barley equivalent [6].

Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. Consumption prices (at farm gate)

Implicit prices corresponding to reference prices plus the unit value of market transfers.
Calculated as (II)-((IX.1)+(X.1))/((I)*1000+((IX.1)+(IX.2))/((IV)*1000

IX. Value of consumption (at farm gate)

(IV)*\(\text{V}\)

2. Rice

I. Level of production

Rice production in husked rice equivalent [1].


II. Producer prices (at farm gate)

Weighted average of government purchase prices and voluntarily marketed farm gate price.

Source: [III] / [I].

III. Value of production (at farm gate)


Sources: [3] MAFRA, Food Grain Policy Division, Sejong.
IV. Trade status

Net importer through the whole period.
Source: Production minus consumption (I) - (IV).

V. Market price differential at the farm gate

Producer price minus reference price (II) – (VI)

VI. Reference prices at the farm gate (including the definition of the margin)

Chinese export price of rice, f.o.b., plus transportation costs (3 per cent) [10] and from 2001, average import prices (c.i.f.) of rice calculated as the unit value of rice imports (HS1006XX) [3].
Sources: [3] MAFRA, Food Grain Policy Division, Sejong.

VII. Level of consumption (at farm gate)

Total consumption in husked rice equivalent [6].
Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. Consumption prices (at farm gate)

Implicit prices corresponding to reference prices plus the unit value of market transfers.
Calculated as (II) - ((IX.1) + (X.1)) / (I) * 1000 + ((IX.1) + (IX.2)) / (IV) * 1000

IX. Value of consumption (at farm gate)

(IV) * (V)

3. Soybeans

I. Level of production

Soybeans: Total production [1].

II. Producer prices (at farm gate)

Weighted average of government purchase prices and voluntarily marketed farm gate price.
Source: [III] / [I].

III. Value of production (at farm gate)

Sources: [3] MAFRA, Food Grain Policy Division, Sejong.
IV. Trade status

Net importer through the whole period.
Source: Production minus consumption (I) - (IV).

V. Market price differential at the farm gate

Producer price minus reference price (II) - (VII)

VI. Reference prices at the farm gate (including the definition of the margin)

Korean average import price, c.i.f. [8].
Source: [8] Korean Customs Services [KCS], Statistical Yearbook on Foreign Trade, various years, Seoul.

VII. Level of consumption (at farm gate)

Soybeans: Total consumption of soybeans [6].
Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. Consumption prices (at farm gate)

Implicit prices corresponding to reference prices plus the unit value of market transfers.
Calculated as (II)-((IX.1)+(X.1))/(I)*1000+((IX.1)+(IX.2))/(IV)*1000

IX. Value of consumption (at farm gate)

(IV)*(V)

4. Milk

I. Level of production

Producer price of raw milk at farm gate [2].

II. Producer prices (at farm gate)

Producer price of raw milk at farm gate [2].

III. Value of production (at farm gate)

(I) * (II) / 1000.
IV. Trade status

Net importer since 1990.
Source: Production minus consumption (I) - (IV).

V. Market price differential at the farm gate

Producer price minus reference price (II) – (VII)

VI. Reference prices at the farm gate (including the definition of the margin)

Border prices of butter and SMP (skimmed milk powder) converted into a milk equivalent border price using technical coefficients minus a processing margin, calendar year. The border prices of butter and skimmed milk powder are the average import prices (c.i.f. prices) of butter and skimmed milk powder [18]. The processing margin is calculated as a simple average of the processing margins for the four main exporting countries: Australia, EU, New Zealand and the United States.
Sources: [18] aT, Korea Agro Trade Information statistics

VII. Level of consumption (at farm gate)

Total domestic consumption of cow milk in raw milk equivalent [6].
Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. Consumption prices (at farm gate)

Implicit prices corresponding to reference prices plus the unit value of market transfers.
Calculated as (II)-((IX.1)+(X.1))/(I)*1000+((IX.1)+(IX.2))/(IV)*1000

IX. Value of consumption (at farm gate)

(IV)*(V)

5. Beef and veal

I. Level of production

Domestic production in carcass weight equivalent [2].

II. Producer prices (at farm gate)

Average auction price of beef in wholesale markets in Korea, in carcass weight equivalent [2] adjusted for by-product value, and slaughtering and transportation costs (around 3%) to convert it to a farm gate price [5].
III. **Value of production (at farm gate)**

\[
\frac{(I) \times (II)}{1000}
\]

**IV. Trade status**

Net importer through the whole period.
Source: Production minus consumption (I) - (IV).

**V. Market price differential at the farm gate**

Producer price minus reference price (II) – (VII)

**VI. Reference prices at the farm gate (including the definition of the margin)**

Since 1989, unit value of imported beef from Canada and the US, in carcass weight equivalent [14]. Since 2001, import price estimated by using the tariff rate [14].
Sources: [13] USDA, Agricultural Outlook [AGLINK database].

**VII. Level of consumption (at farm gate)**

Total domestic consumption in carcass weight equivalent [6].
Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

**VIII. Consumption prices (at farm gate)**

Implicit prices corresponding to reference prices plus the unit value of market transfers.
Calculated as \( (II)-((IX.1)+(X.1))/(I)*1000+((IX.1)+(IX.2))/(IV)*1000 \)

**IX. Value of consumption (at farm gate)**

\( (IV)*(V) \)

6. **Pig meat**

I. **Level of production**

Domestic production in carcass weight equivalent [2].

II. **Producer prices (at farm gate)**

Average auction price of pig meat in wholesale markets, in carcass weight equivalent [2] adjusted for by-product value and slaughtering and transportation costs (5-8 per cent) to convert it to a farm gate price [5].

III. Value of production (at farm gate)

\[(I) \times (II) / 1000.\]

IV. Trade status

Net importer until 2012, net exporter since 2013.

Source: Production minus consumption (I) - (IV).

V. Market price differential at the farm gate

Producer price minus reference price (II) – (VII)

VI. Reference prices at the farm gate (including the definition of the margin)

US No.2 grade wholesale price plus transportation and insurance costs [15].


VII. Level of consumption (at farm gate)

Total domestic consumption in carcass weight equivalent [6].

Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. Consumption prices (at farm gate)

Implicit prices corresponding to reference prices plus the unit value of market transfers.

Calculated as \((II)-(IX.1)+(X.1))/(I)*1000+((IX.1)+(IX.2))/(IV)*1000\)

IX. Value of consumption (at farm gate)

\((IV)*(V)\)

7. Poultry meat

I. Level of production

Domestic production of chicken meat in carcass weight equivalent [2].


II. Producer prices (at farm gate)

Delivery price of chicken meat to wholesale markets in carcass weight equivalent [2] adjusted for slaughtering and transportation costs (15-20%) to convert it to a farm gate price [5].

III. **Value of production (at farm gate)**

\[(I) \times (II) / 1000.\]

IV. **Trade status**

Net importer through the whole period.

Source: Production minus consumption (I) - (IV).

V. **Market price differential at the farm gate**

Producer price minus reference price (II) – (VII)

VI. **Reference prices at the farm gate (including the definition of the margin)**

US producer price, adjusted for EEP [16] plus 20% transportation costs.

Sources: [16] OECD PSE/CSE Tables for the United States.

VII. **Level of consumption (at farm gate)**

Total domestic consumption of chicken meat in carcass weight equivalent [6].

Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. **Consumption prices (at farm gate)**

Implicit prices corresponding to reference prices plus the unit value of market transfers.

Calculated as \((II-((IX.1)+(X.1)))/(I) \times 1000+((IX.1)+(IX.2))/(IV) \times 1000\)

IX. **Value of consumption (at farm gate)**

\((IV) \times (V)\)

8. Eggs

I. **Level of production**

Domestic production of eggs in shell, converted in tonnes using the coefficient 1 egg = 55 grams [2].


II. **Producer prices (at farm gate)**

Price of large size eggs received by farmers [2].

III. Value of production (at farm gate)

\[ (I) \times (II) / 1000. \]

IV. Trade status

Self-sufficiency.

Source: Production minus consumption (I) - (IV).

V. Market price differential at the farm gate

Producer price minus reference price (II) – (VII)

VI. Reference prices at the farm gate (including the definition of the margin)

Wholesale price of eggs in Japan minus tariffs [15].


VII. Level of consumption (at farm gate)

Total domestic consumption of eggs [6].

Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. Consumption prices (at farm gate)

Implicit prices corresponding to reference prices plus the unit value of market transfers.

Calculated as

\[ (II)-(IX.1)+(X.1)/(I)+1000+((IX.1)+(IX.2))/(IV)*100 \]

IX. Value of consumption (at farm gate)

\[ (IV)\times(V) \]

9. Chinese cabbage

I. Level of production

Total production [1].


II. Producer prices (at farm gate)

Value of production divided by level of production [III] / [1].

III. Value of production (at farm gate)

Value of production [1].

**IV. Trade status**

Self-sufficiency until 2012, net importer since 2013.
Source: Production minus consumption (I) - (IV).

**V. Market price differential at the farm gate**

Producer price minus reference price (II) – (VII)

**VI. Reference prices at the farm gate (including the definition of the margin)**

Domestic producer price (II) minus tariffs [12] [(II)/(1+%tariff rate)]
Sources: [12] MAFRA, Sejong.

**VII. Level of consumption (at farm gate)**

Total domestic consumption [6].
Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

**VIII. Consumption prices (at farm gate)**

Implicit prices corresponding to reference prices plus the unit value of market transfers.
Calculated as (II)-((IX.1)+(X.1))/(I)*1000+((IX.1)+(IX.2))/(IV)*1000

**IX. Value of consumption (at farm gate)**

(IV)*(V)

10. Garlic

**I. Level of production**

Total production [1].

**II. Producer prices (at farm gate)**

Value of production divided by level of production [III] / [1].

**III. Value of production (at farm gate)**

Value of production [1].

**IV. Trade status**

Net importer through the whole period.
Source: Production minus consumption (I) - (IV).
V. Market price differential at the farm gate

Producer price minus reference price (II) – (VII)

VI. Reference prices at the farm gate (including the definition of the margin)

From 1986 to 1992, domestic producer price multiplied by price gap (3.50 times) calculated by comparison of 1993-99 domestic producer price and unit import value.

Since 1993, unit import value [17].


VII. Level of consumption (at farm gate)

Total domestic consumption [6].

Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. Consumption prices (at farm gate)

Implicit prices corresponding to reference prices plus the unit value of market transfers.

Calculated as (II)-((IX.1)+(X.1))/((I)*1000+((IX.1)+(IX.2))/((IV)*1000

IX. Value of consumption (at farm gate)

(IV)*V

11. Red peppers

I. Level of production

Total production [1].


II. Producer prices (at farm gate)

Value of production divided by level of production [III] / [1].

III. Value of production (at farm gate)

Value of production [1].


IV. Trade status

Self-sufficiency until 2012, net importer since 2013.

Source: Production minus consumption (I) - (IV).
VI. Reference prices at the farm gate (including the definition of the margin)

From 1986 to 1992, domestic producer price multiplied by price gap (3.50 times) calculated by comparison of 1993-99 domestic producer price and unit import value.

Since 1993, unit import value [17].


VII. Level of consumption (at farm gate)

Total domestic consumption [6].

Source: [6] MAFRA, Food Grain Policy Division, Statistics on Demand and Supply of Food Grains, various years.

VIII. Consumption prices (at farm gate)

Implicit prices corresponding to reference prices plus the unit value of market transfers.

Calculated as (II)-(IX.1)+(X.1)/(I)*1000+((IX.1)+(IX.2))/(IV)*1000

IX. Value of consumption (at farm gate)

(IV)*(V)