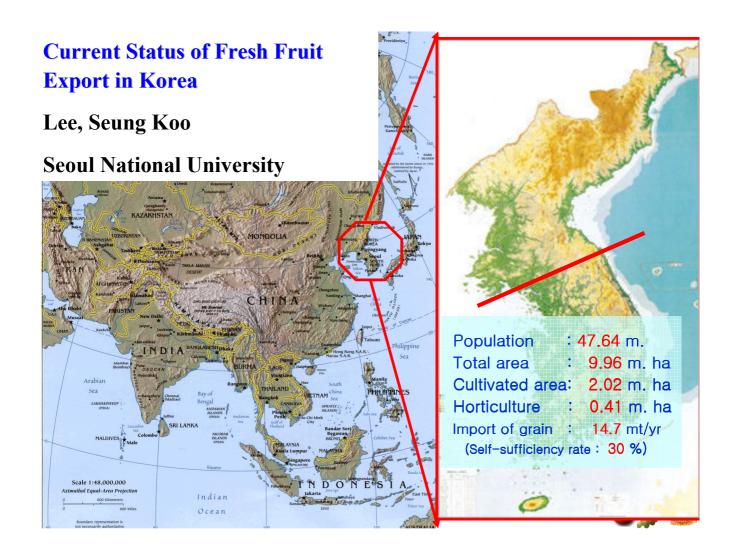
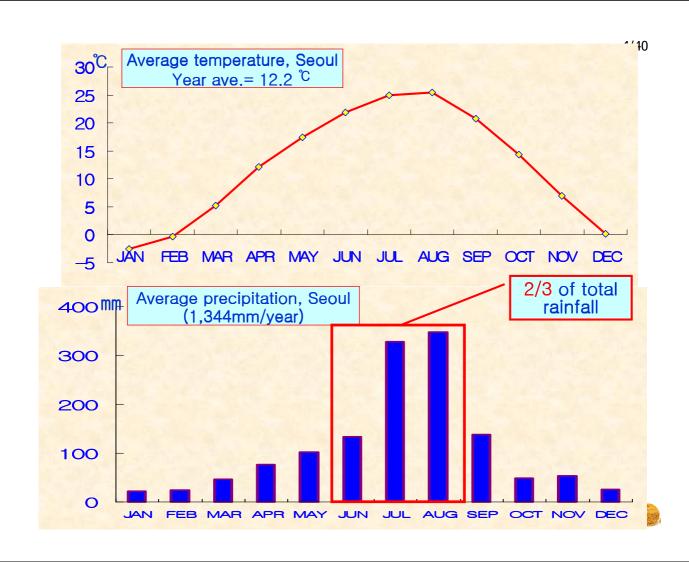
Current Status of Fresh Fruit Export in Korea

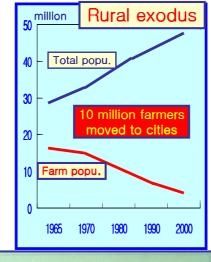
Lee, Seung Koo Department of Plant Science Seoul National University

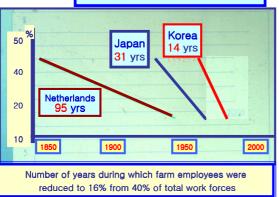


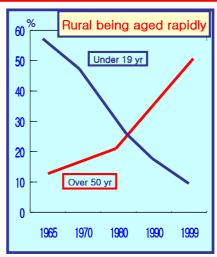




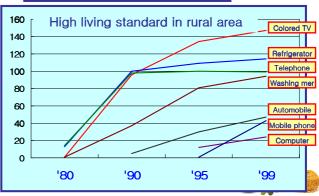
Drastic changes happened in Korean rural society







5/40



The most serious problem faced in Korean agriculture

Rice
Productivity
= 5t/ha =
The highest

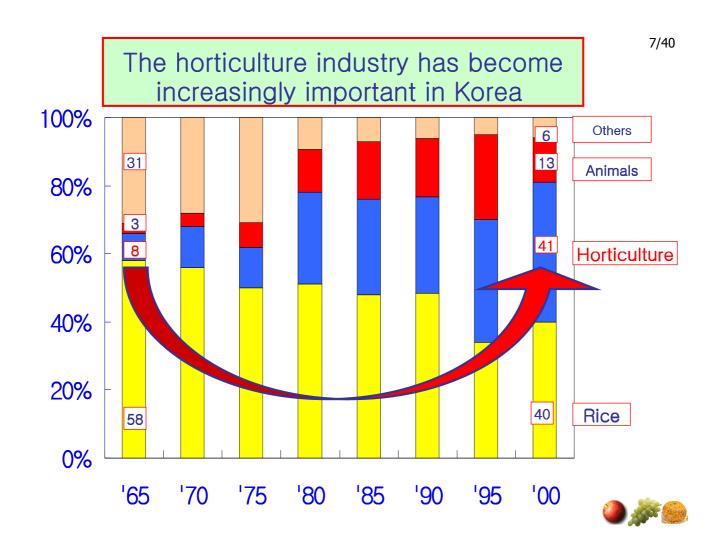
Rice price,
5-9 times
Higher
The highest

Our farmers
are still
poor,
even
poorer

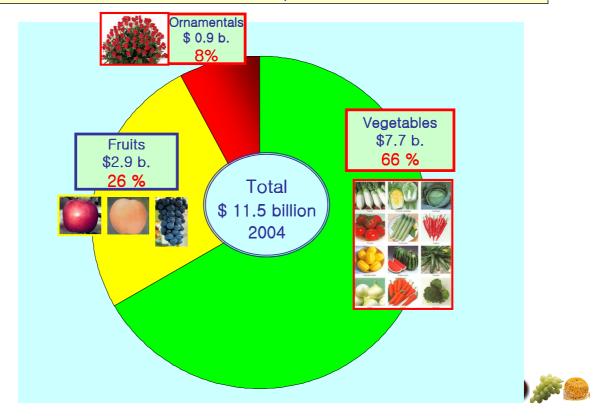
Because our farm size is too small

(1.39ha/household, 2002)





Production value of Horticultural Crops in Korea, 2004





The product value (\$ million) and their market shares of ten major vegetables in Korea (These 10 crops formed 80% of the total)



\$ 343 M. (6%)





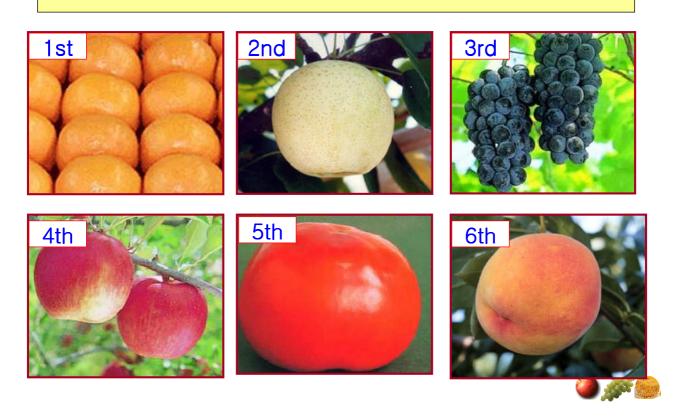








Major fruits in Korea (2004)



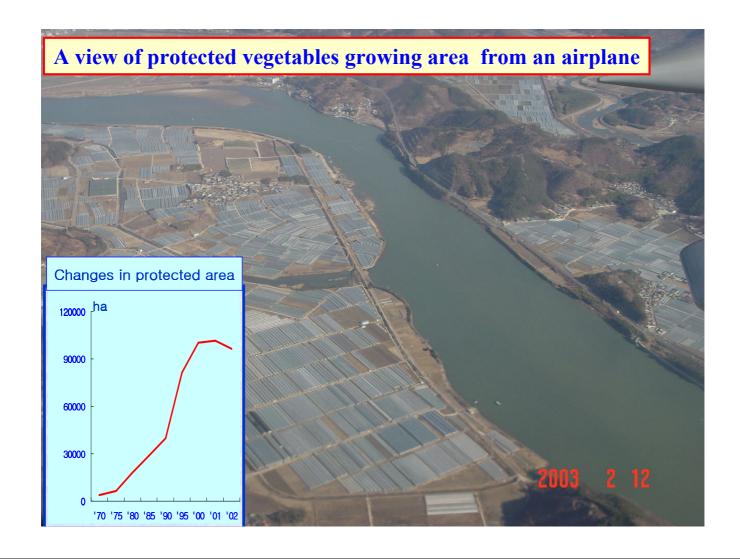




Table 1. Fruit production in Korea.

 (10^3 M/T)

	1998	2000	2002	2004
Citrus	511	563	642	584
Pear	259	324	386	452
Grape	397	475	422	368
Apple	459	488	433	357
Persimmon	260	287	281	299
Peach	151	170	187	200
Plum	39	51	57	72
Etc	73	66	71	78
Total	2,153	2,428	2,500	2,410



Fig. 2. Fruit production (10³M/T) in 2004.

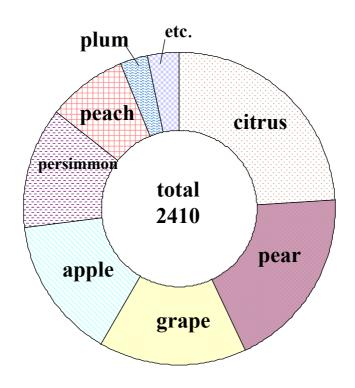




Table 2. Export value of horticultural crops from Korea. (M US\$)

	2000	2001	2002	2003	2004
Vegetables	187	190	169	194	230
Fruits	45	56	82	71	86
Flowers	30	32	32	45	49
Total	262	278	283	210	355

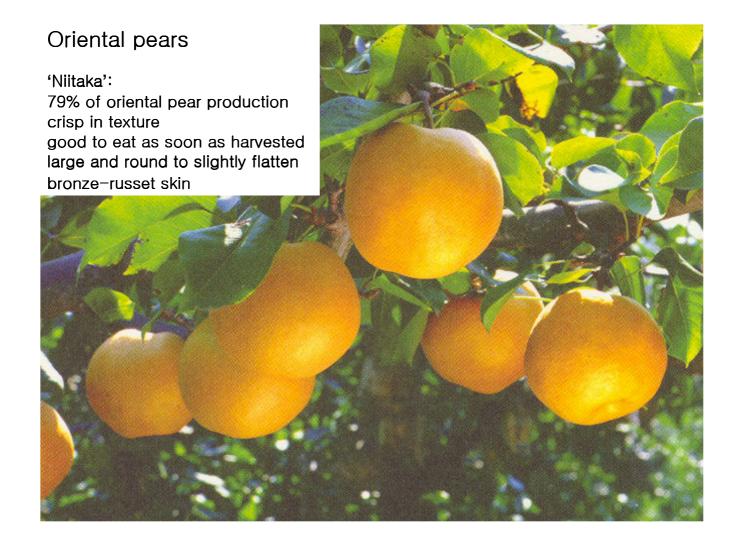


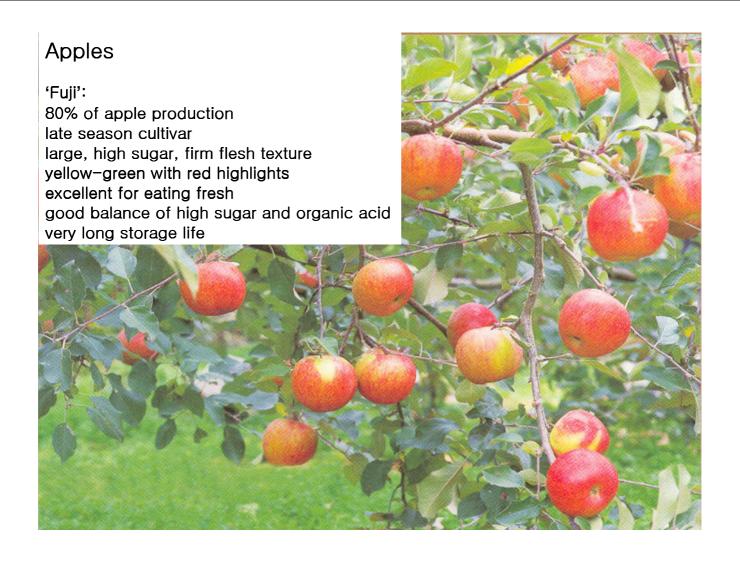
Table 3. Export value of fruits from Korea.

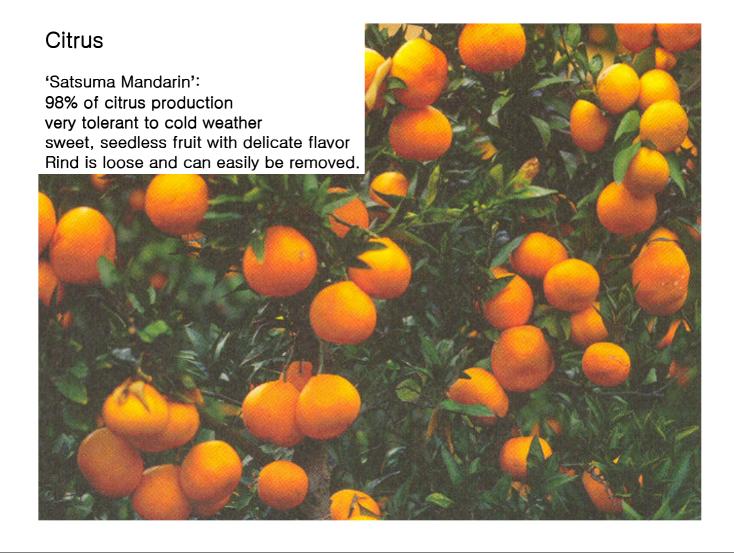
(M US\$)

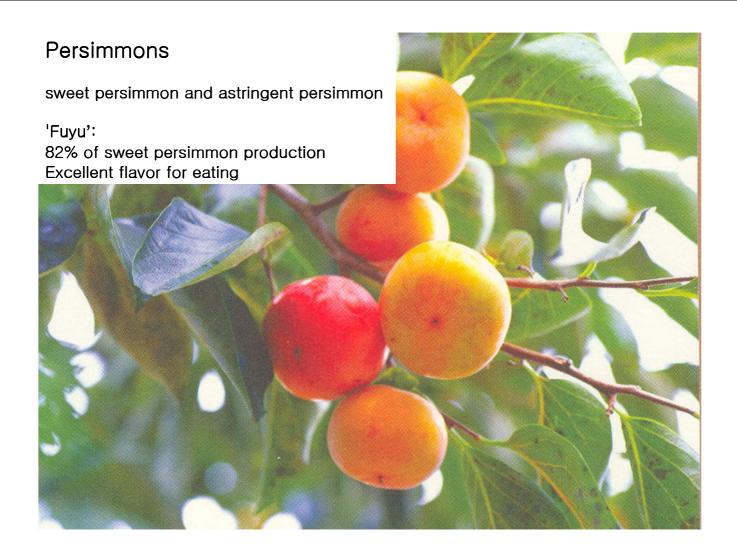
	2001	2002	2003	2004	2005
Pear	19.6	34.1	30.1	35.2	56.1
Apple	3.0	14.2	7.7	5.2	7.8
Citrus	4.9	5.7	4.3	5.6	3.4
Persimmon	4.4	4.6	2.3	3.6	5.6











Postharvest research in Korea

1950's: no postharvest research

1960's: common stores with clay bricks (apple, pear)

MA storage with PVC film (persimmon, vegetables)

1970's: MA storage
storage for national security
pretreatment technology
some postharvest physiology (respiration)













1980's: low cost storage
standard fruit store
packaging and filler
cold storage

1990's: postharvest technology for globalization cold-chain system

packaging with functional films

CA storage with nitrogen generator

2000's: well-being era
nutritional quality
phytonutrients
convenient food











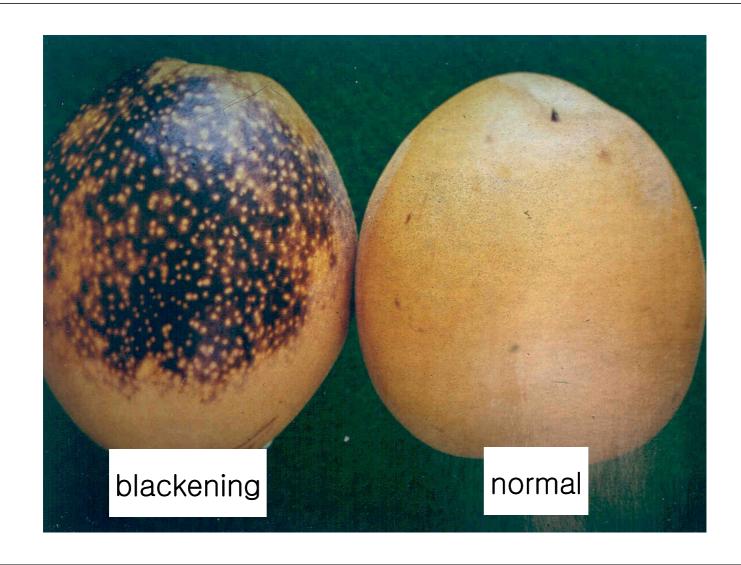


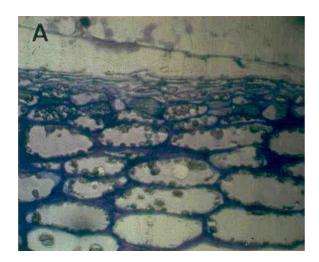


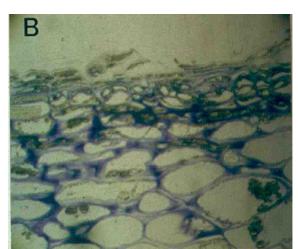




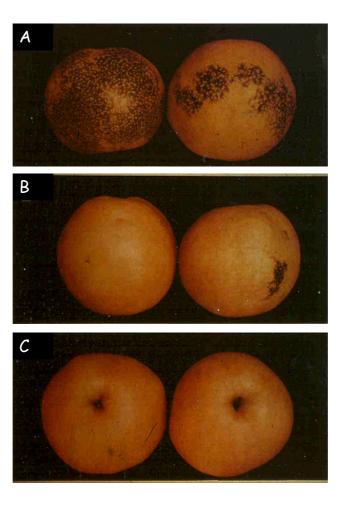


















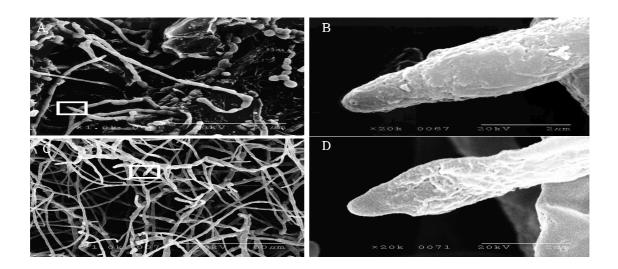


Fig. 35. Scanning electron micrographs of the conidial shapes and acervulus of *Gloeodes pomigena* isolated from black stain Niitaka pear fruit skin. A, Colony separated from black stain pear fruit skin(\times 1k); B, Colony separated from black stain pear fruit skin(\times 20k); C, Cultured colony separated from black stain pear fruit skin(\times 1k); D, Cultured colony separated from black stain pear fruit skin(\times 20k).







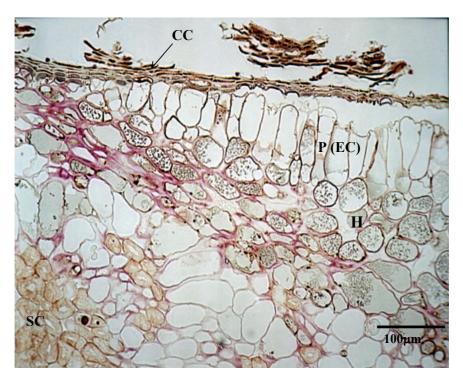
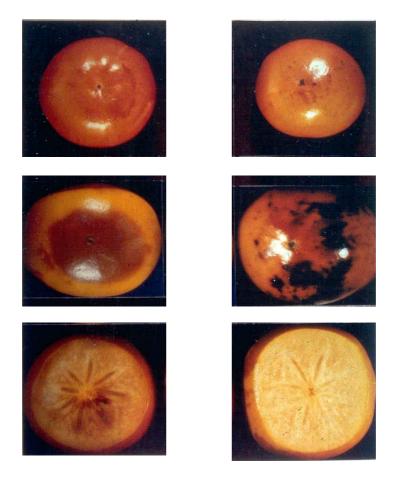


Fig. 20. Anatomical structure of skin tissue on Niitaka pear fruit showing initiating and terminating portion of the peeling-off disorder. CC, cork cell; H, hypodermis; P(EC), phellogen (elongated cell).







Agricultural & Fishery Marketing Corporation (AFMC)

in charge of exports and imports of agricultural products in Korea

main duty:

collection of agricultural and fishery trade information promotion of sales, and public relations development in overseas markets participate in major international exhibitions operate Korean food exhibitions and overseas exhibitions install export public relations in partner trading countries

operate financial assistance programs: wholesale market construction loans advanced payment loans shipping promotion loans

Overseas offices:

Japan (Tokyo, Osaka), Netherlands (Rotterdam), U.S.A. (New York, LA) Russia (Moscow), Singapore, and China (Beijing, Shanghai)



Recommendations:

Labor-saving technologies should be developed for improving price competitiveness.

Restructuring of fruit production and marketing systems are needed to reduce production cost.

It is essential to develop the modernized systems for postharvest operations.

Improving the **brand values** of Korean fruits into the overseas' markets is also important.

Systematic export promotion programs should be implemented.

Development of new varieties is needed through new biotechnology technique.



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