Key Features of E-diary for the Expenditure Survey in Korea

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Background of the E-diary

◆ HIES (until 2016)

- <u>Conducted monthly</u> : keep a diary on a daily basis
- <u>Quarterly release</u> of data
- <u>Diary-keeping</u> method is used
- Sample Size : 8,700 households
- A sample was asked to keep the diary for 3 years

Introduction of the E-diary

- Developed the E-diary system in 2005
- Applied to the survey from 2006
- About 50% of the respondents used it in 2016

Main features of E-diary

[1] Conducted on the computer and the Internet

- Download E-diary Program & update it on a daily basis
- Transfer the data to NSO DB online every month
- Enumerators had reduced work to collect diaries



http://www.nso.go.kr

Main features of E-diary(2)

[2] Screen import solution

- Access bank or credit card accounts, import data to the respondent's diary
- Easy to update the diary
- ✓ Reduce missing data



Main features of E-diary(3)

[3] Code search engine

- Data is classified by respondents using the code search engine
 - ✓ Reduces coding error
 - ✓ Saves time for enumerators

황목겸색		×
고등어	□ 확장검색	벽 검색
항목명	내용	검색항목
고등어(생물)	고등어 간고등어, 절인 고등어ঢ় 간고등어	
절인 고등어	간고등어, 절인 고등어	
수산물통조림	침치통조림(침치,짜장침치,카레침치 등) 기타어류통조림(꼼치통조림,고등어통조림,정어리통조림 등) 기타어개류통조림(골뱅이통조림 등) 등	
	<u>×</u>	·인 취소

Search box and result

Main features of E-diary(4)

[4] Automated editing system

- Editing system is applied to the E-diary
- Data checking & correcting occurs when respondents enter the data
- ✓ Reduces response error & Saves time for enumerators

4	오류검사 🔀								
	05월 오류검사 결과 [11]건								
	번 호	내 용	미납	해당없음					
	0	근로자가구(법인경영자포함)일때 가구주 근로소득없음			1				
	9	자동차가 있는데 연료비 지출이 없군요							
	10	아파트 관리비 지출이 없군요							
	13	상하수도료 지출이 없군요							
	14	전기료지출이 없군요							
	15	방송수신료 지출이 없군요							
	16	건강보험료 지출이 없군요							
	17	구미여그에 다기어그 지수에 어구이							
				취소					

Response Error message

Main features of E-diary(5)

[5] Diverse economic data for the respondents

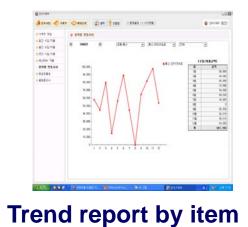
- Table & graphic analysis reports for the respondent households expenditures
- Sample households can assess the level, structure & trend of their own economic well-being



Table report



Graphic report



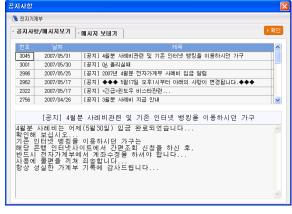
http://www.nso.go.kr

Main features of E-diary(6)

[6] Online & mobile contact point

- Mobile message service & online notice board
- Respondents & enumerators are able to contact each other freely





Notice & message board

Advantages and Limitations

Advantages

- Increased convenience of records keeping
- Reduced non-sampling error
- Better tool for households hard to reach in the daytime

Limitations

- Some age groups are not used to electronic system
- Less detailed classifications and higher minimum unit value by respondents in comparison to paper-diary by interviewers