



Romanian Academy
RESEARCH INSTITUTE FOR QUALITY OF LIFE

**The monitoring of Social Effects of the
Agricultural Pollution Control Project**

**RESULTS OF SURVEYS IN HOUSEHOLDS AND AGRICULTURAL
COMPANIES**

A report for Ministry for Environment and Water Management

Author:

Cristina Băjenaru
Dana Nițulescu
Raluca Popescu

Coordinators:

Mălina Voicu
Iuliana Precupețu

Main consultant:

Ioan Mărginean

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This report summarizes the results of the community studies carried out within the project “Monitoring of the social effect of the agricultural Pollution Control Project”.

Mălina Voicu, Iuliana Precupețu (senior research fellows, RIQL) designed the whole study, ensured the coordination of the fieldwork activities, and supervised the reporting.

Cristina Băjenaru, Dana Nițulescu și Raluca Popescu au analizat datele cantitative culese în timpul cercetării de teren și a elaborate prezentul raport.

Ioan Mărginean (full professor of sociology; deputy president, RIQL) provided technical expertise during the whole activity.

Dana Nițulescu has had coordinating the fieldwork research.

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Survey data: Agricultural Companies

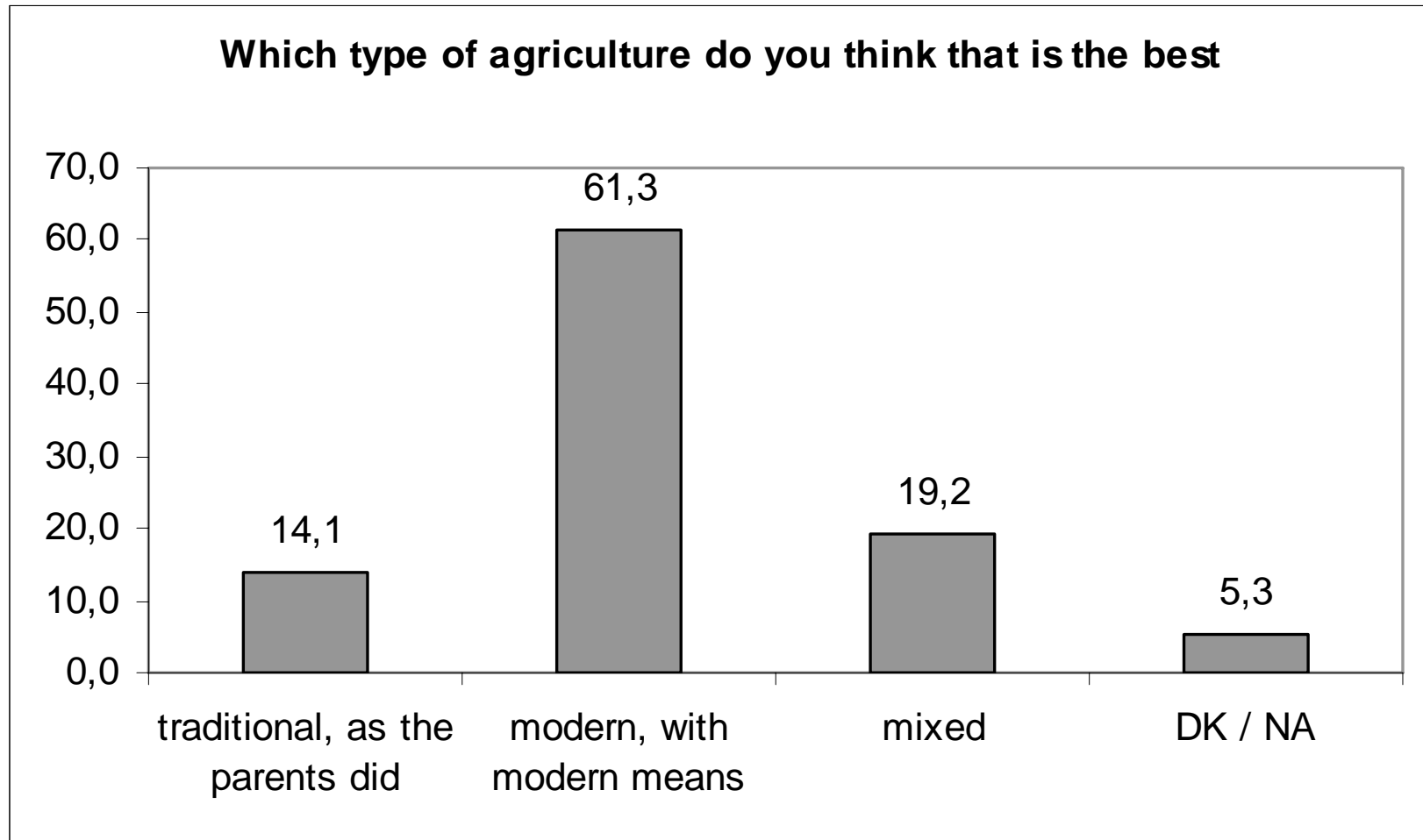
Total surface cultivated using environmental friendly agricultural practices (2004)

| (ha) | Households | Associations | Total |
|--|------------|--------------|-------|
| Did you practice the crop rotation periodically changing the cereals with vegetables (beans, soy, pease) or with technical crop on the same plot of land | 392 | 23111 | 23503 |
| Did you use chemical fertilizers asking to a specialist about the quantity of the fertilizers | 244 | 15308 | 15552 |
| Did you use organic fertilizers (compost) | 158 | 4990 | 5148 |
| Did you use organic insect killer against crop diseases | 106 | 595 | 701 |
| Did you use pesticides against crop diseases asking to a specialist about the quantity and the quality of the pesticides | 276 | 19137 | 19413 |
| Did you use selected seeds | 437 | 28416 | 28853 |
| Did you use soil testing | 183 | 9181 | 9364 |
| Did you use natural windbreaks | 12 | 407 | 419 |

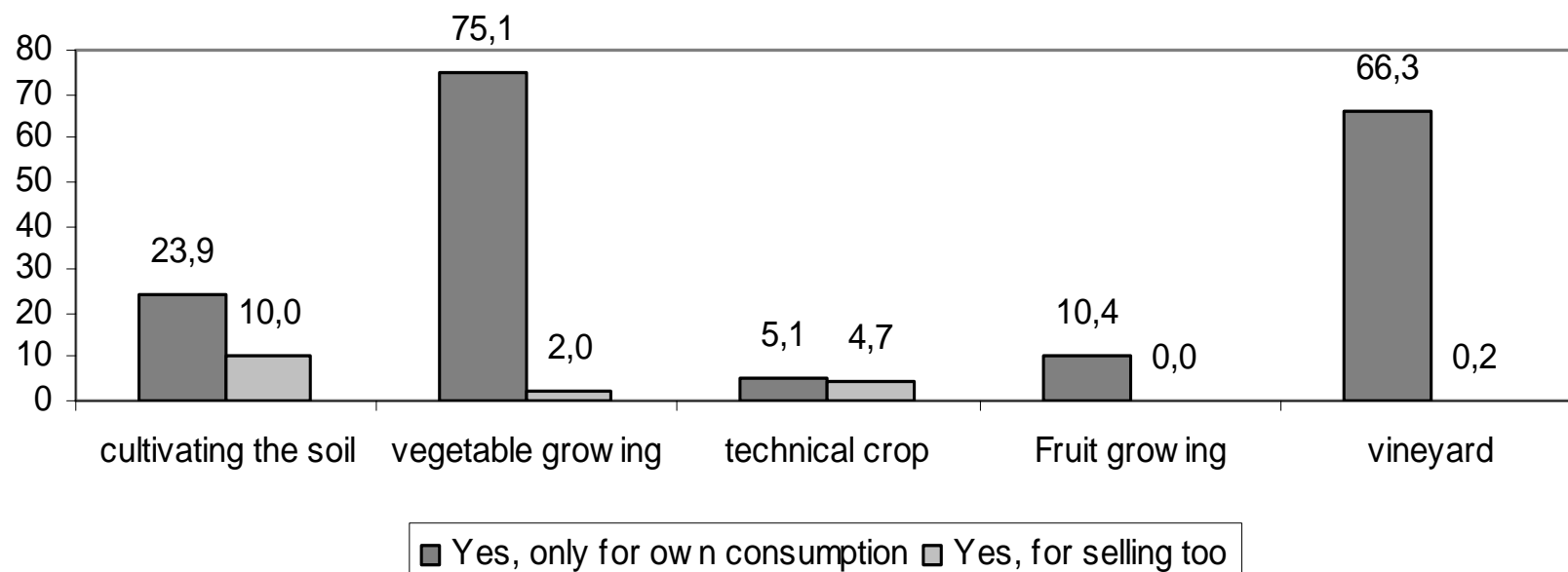
Percentage of associations using environmental friendly agricultural practices in 2000 and 2004

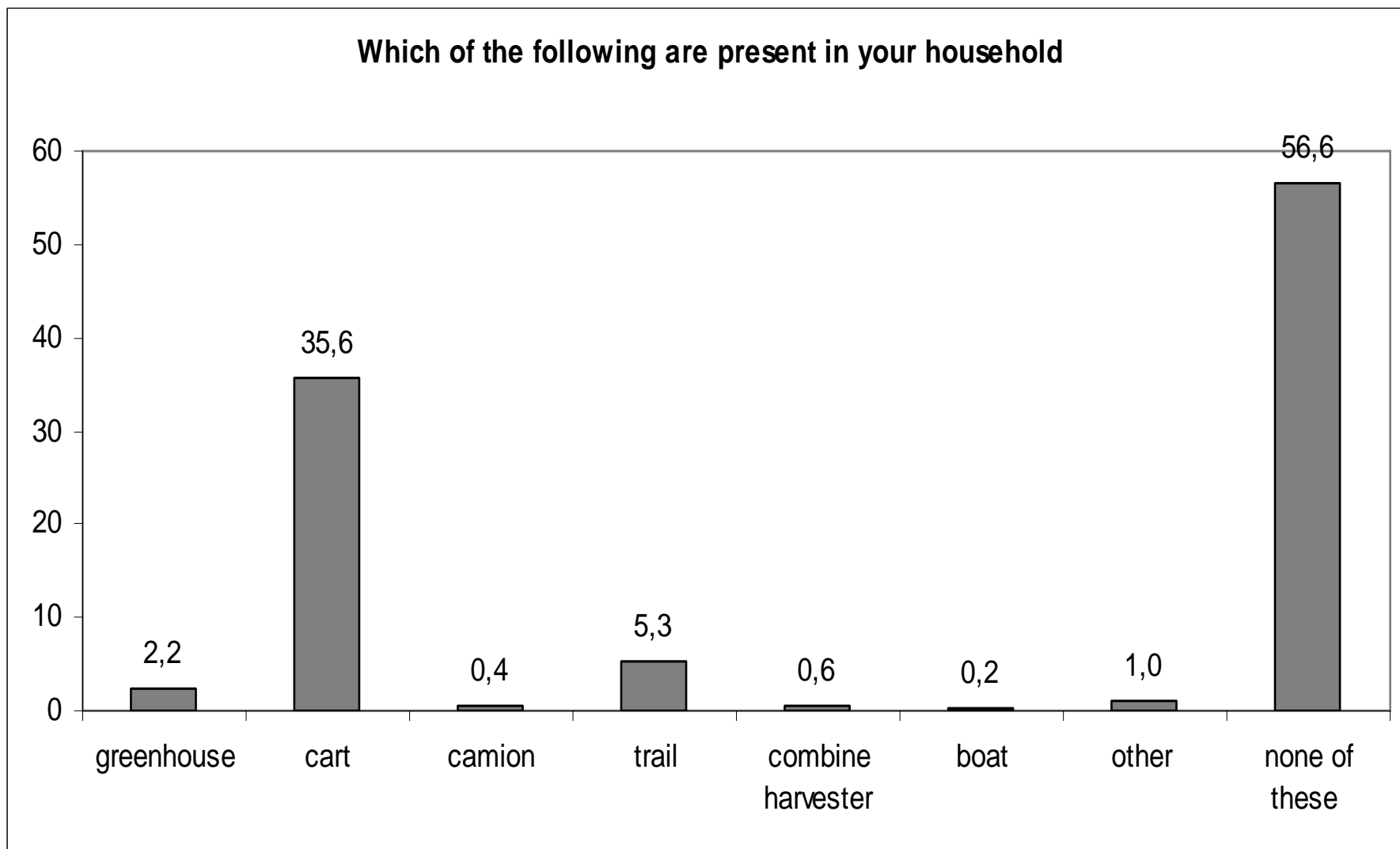
| % | 2000 | 2004 |
|--|------|------|
| Did you practice the crop rotation periodically changing the cereals with vegetables (beans, soy, pease) or with technical crop on the same plot of land | 98 | 100 |
| Did you use chemical fertilizers asking to a specialist about the quantity of the fertilizers | 83 | 88 |
| Did you use organic fertilizers (compost) | 16 | 24 |
| Did you use organic insect killer against crop diseases | 8 | 9 |
| Did you use pesticides against crop diseases asking to a specialist about the quantity and the quality of the pesticides | 83 | 85 |
| Did you use selected seeds | 98 | 99 |
| Did you use soil testing | 27 | 24 |
| Did you use natural windbreaks | 15 | 19 |

Survey data: individual households (graphics)

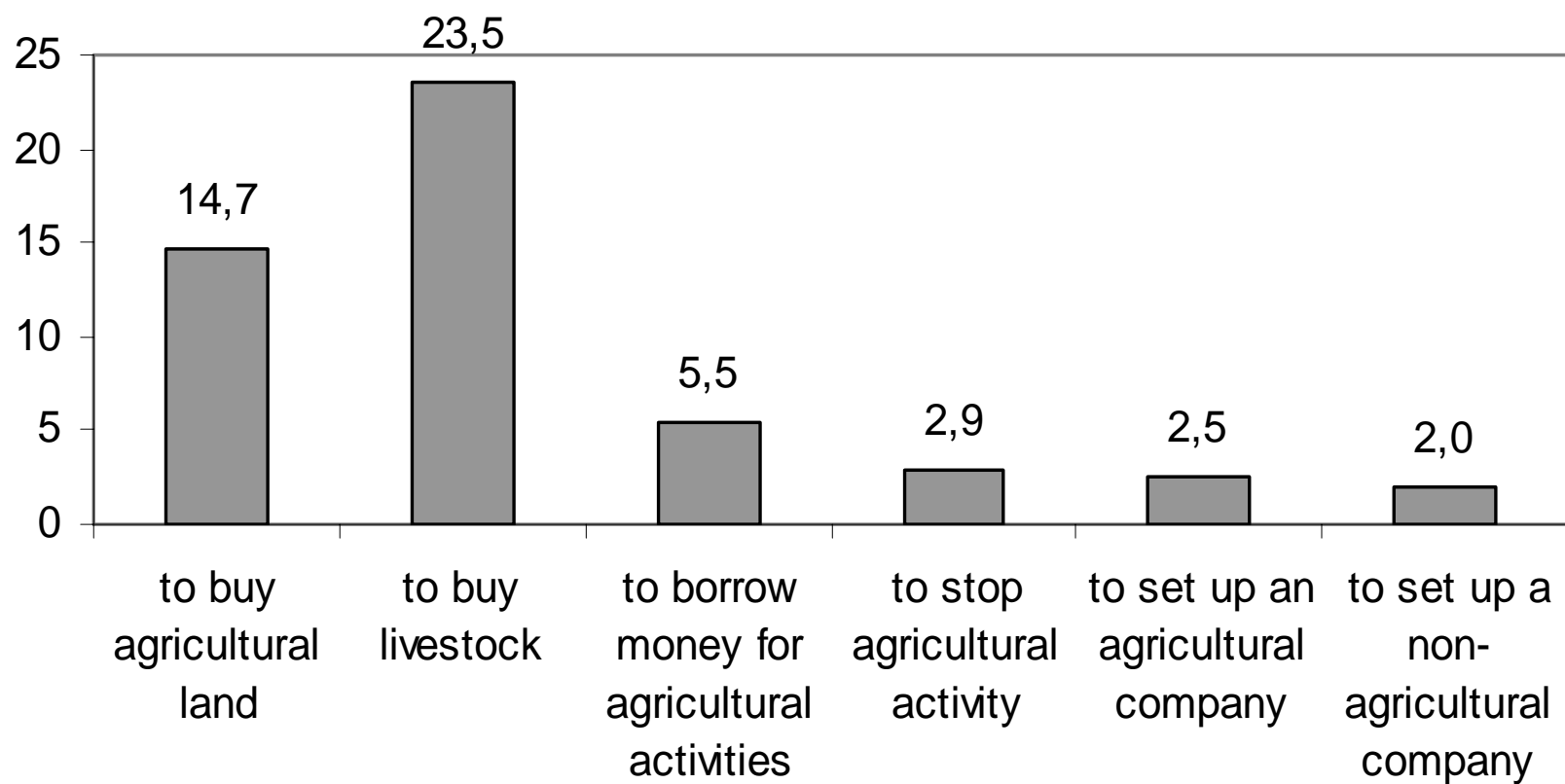


In which of the following activities your household is involved [was performed in the last 12 months], through the effective work of the household's members

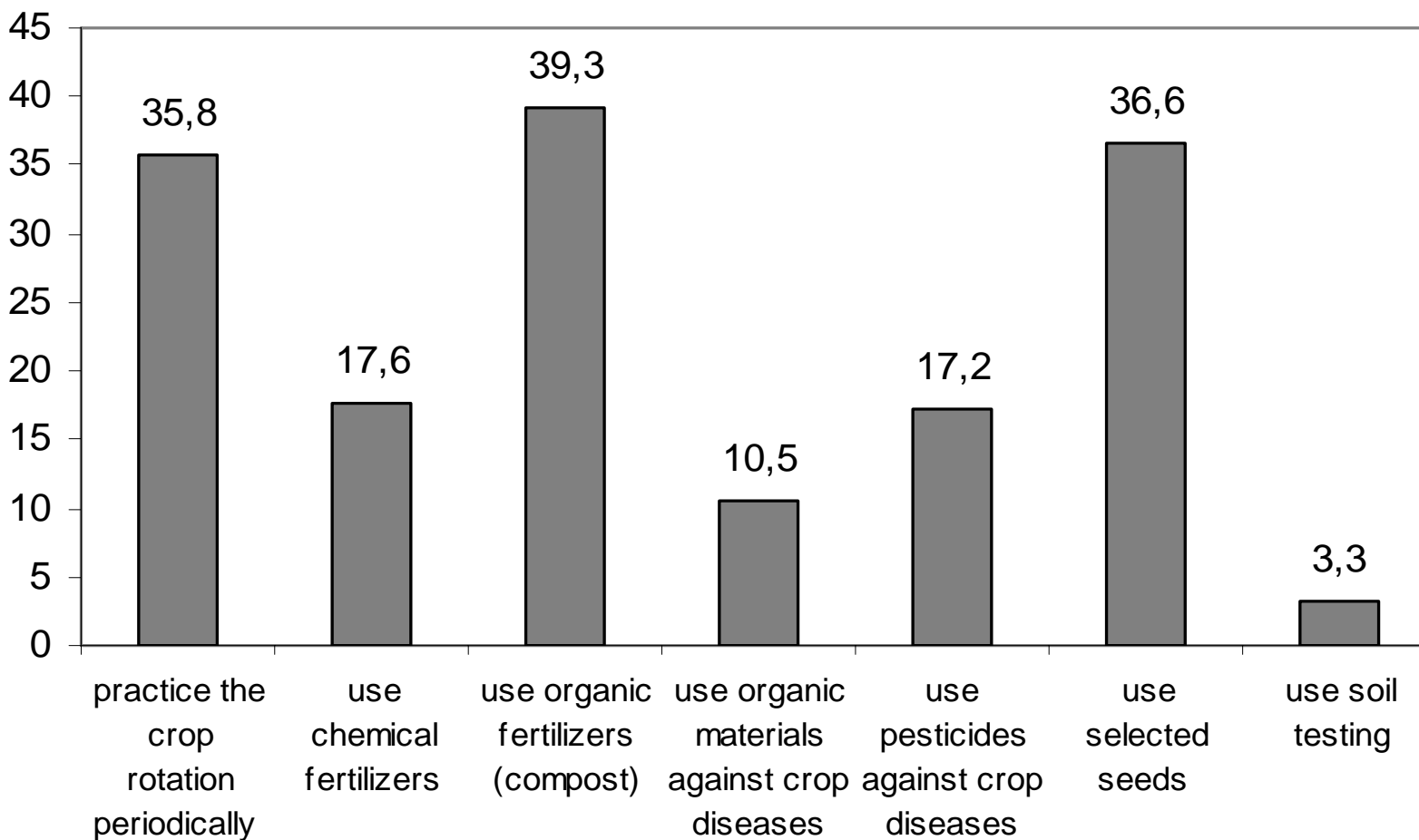




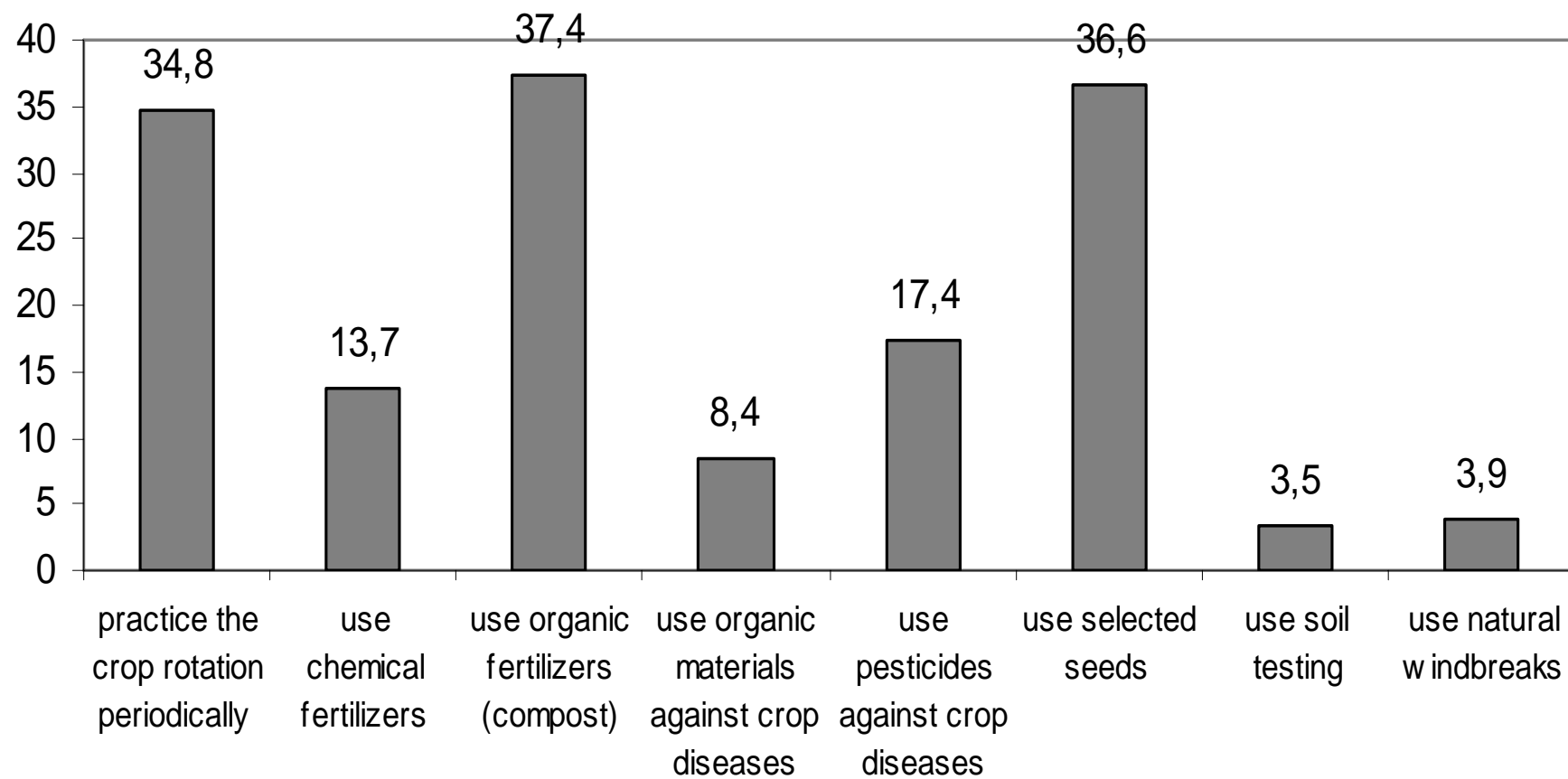
In the following years, do you intend (only "yes" responses)



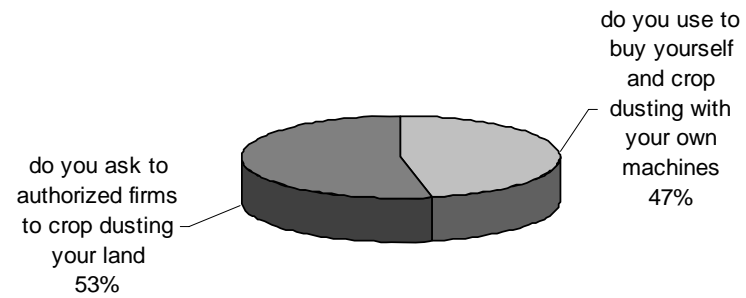
If you are thinking to the way in which you used to practice the agriculture in 2000, which of the following did you use?



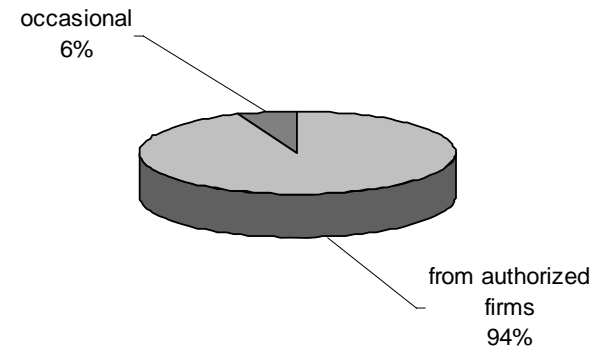
Which of the following did you use (2004)



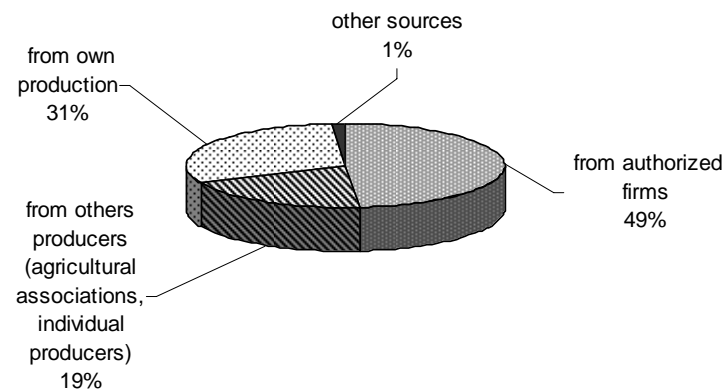
When you are using pesticides...
(only from those who use pesticides)



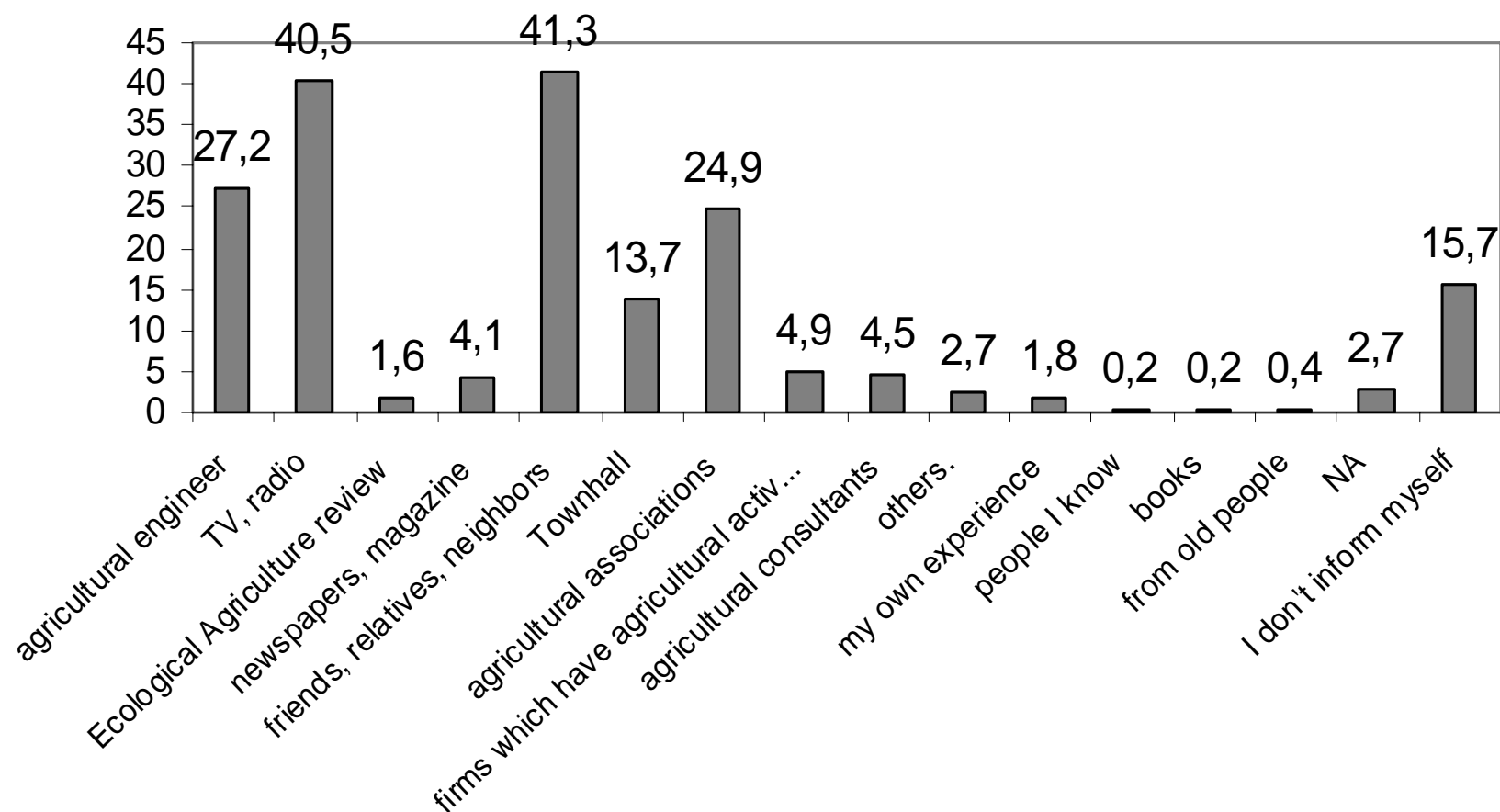
From where do you usually buy pesticides?
(from those who use pesticides)



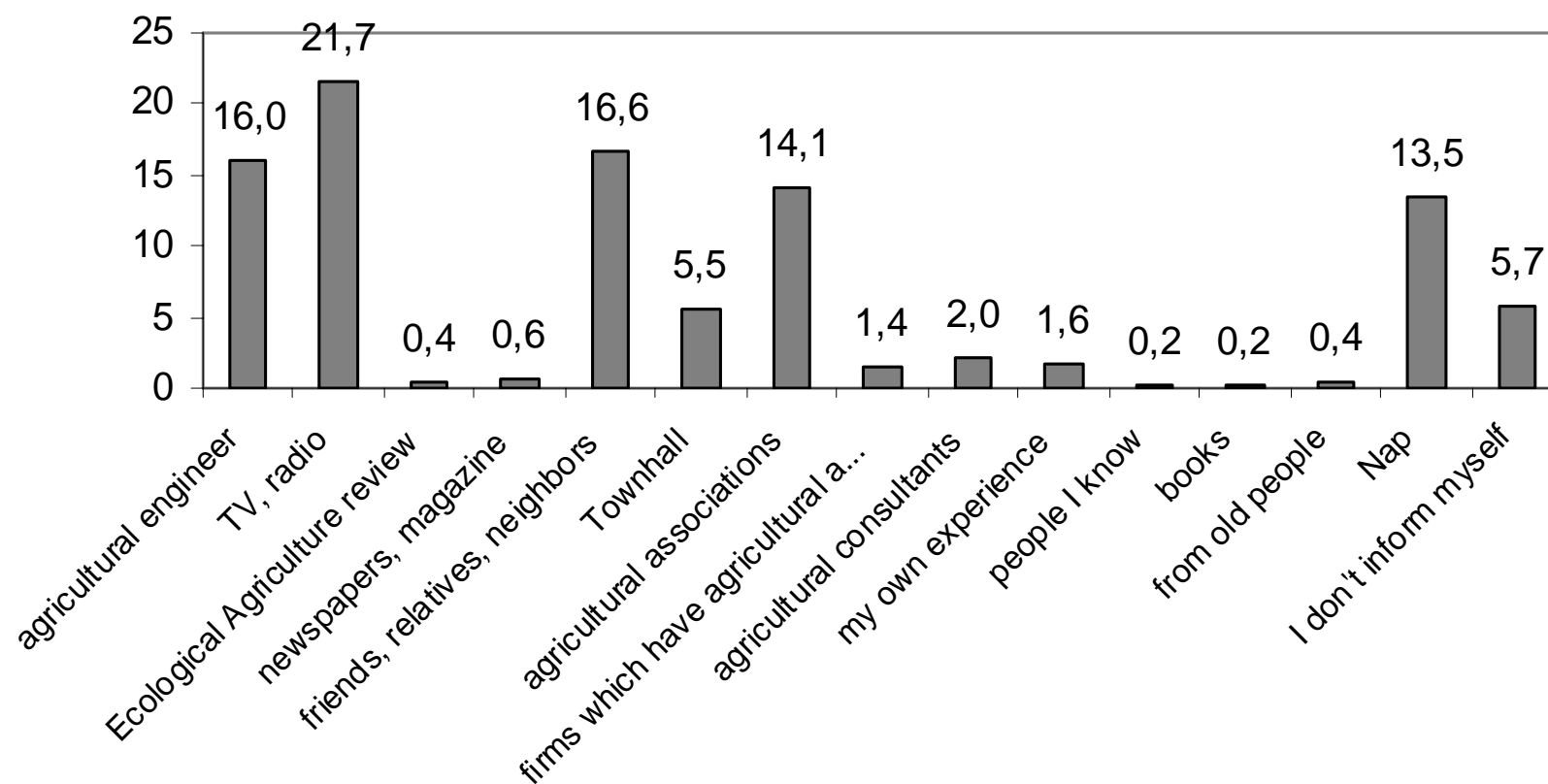
From where do you buy the seeds for the agricultural activities?
(from those who use pesticides)



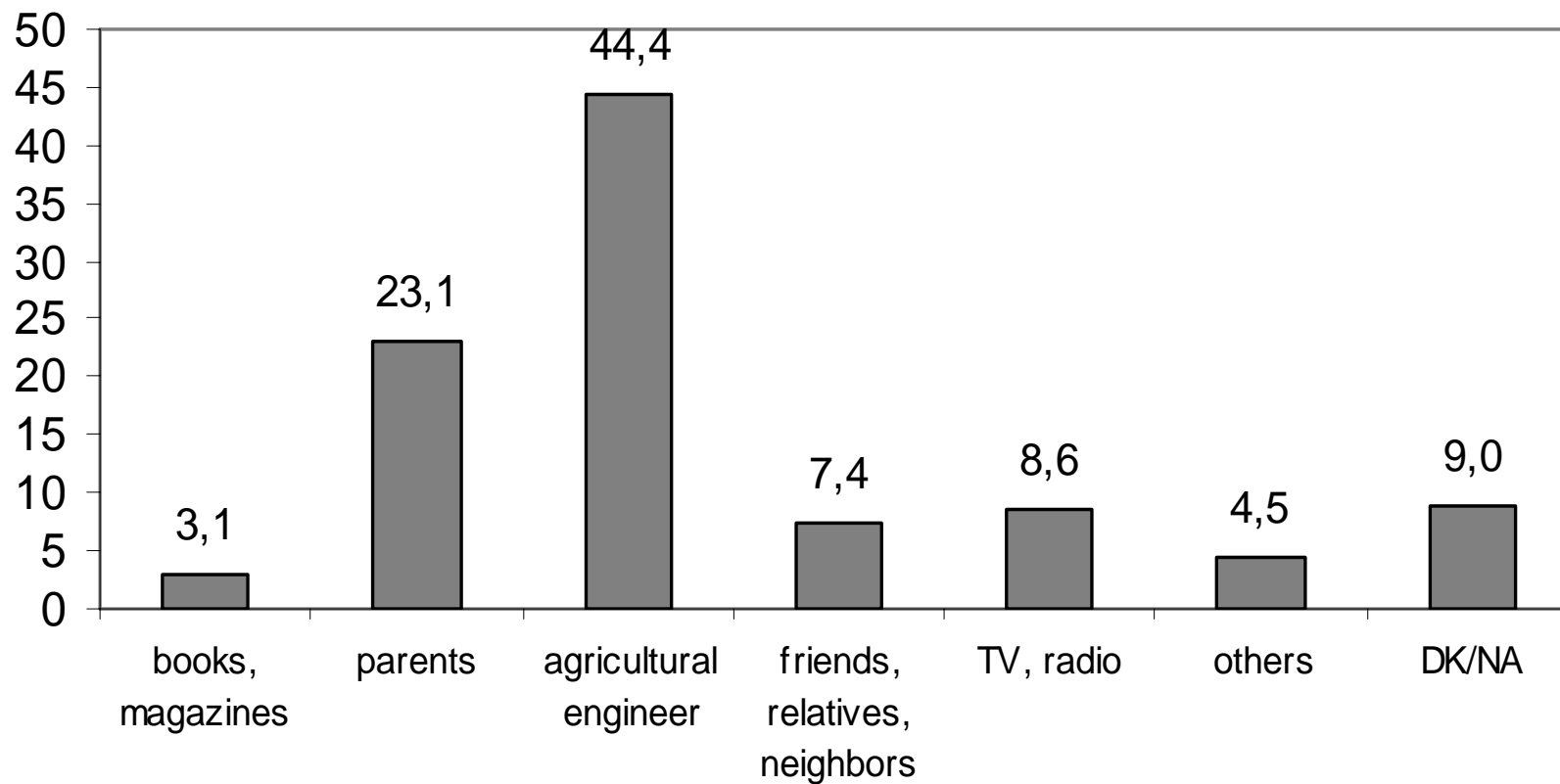
Where do you find information about the agricultural activities?



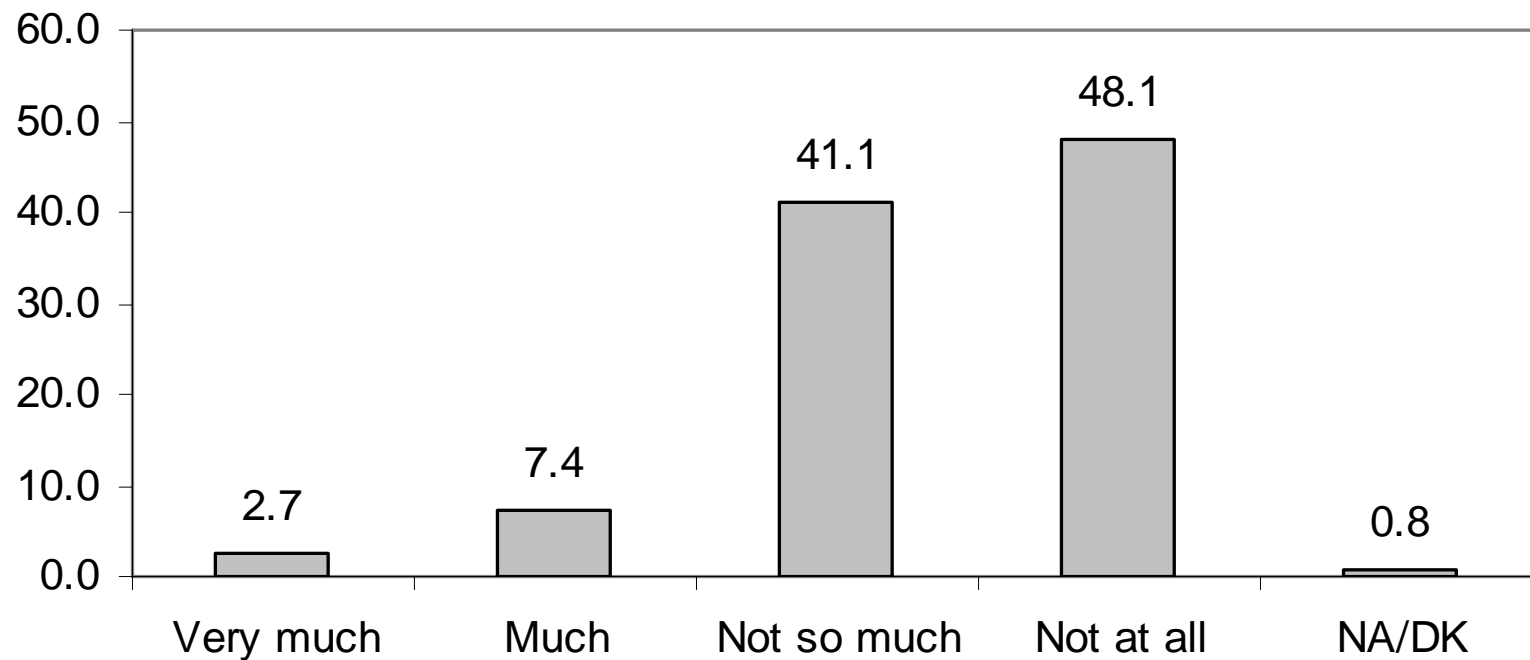
From the sources mentioned above, which one is the most important source of information for you?



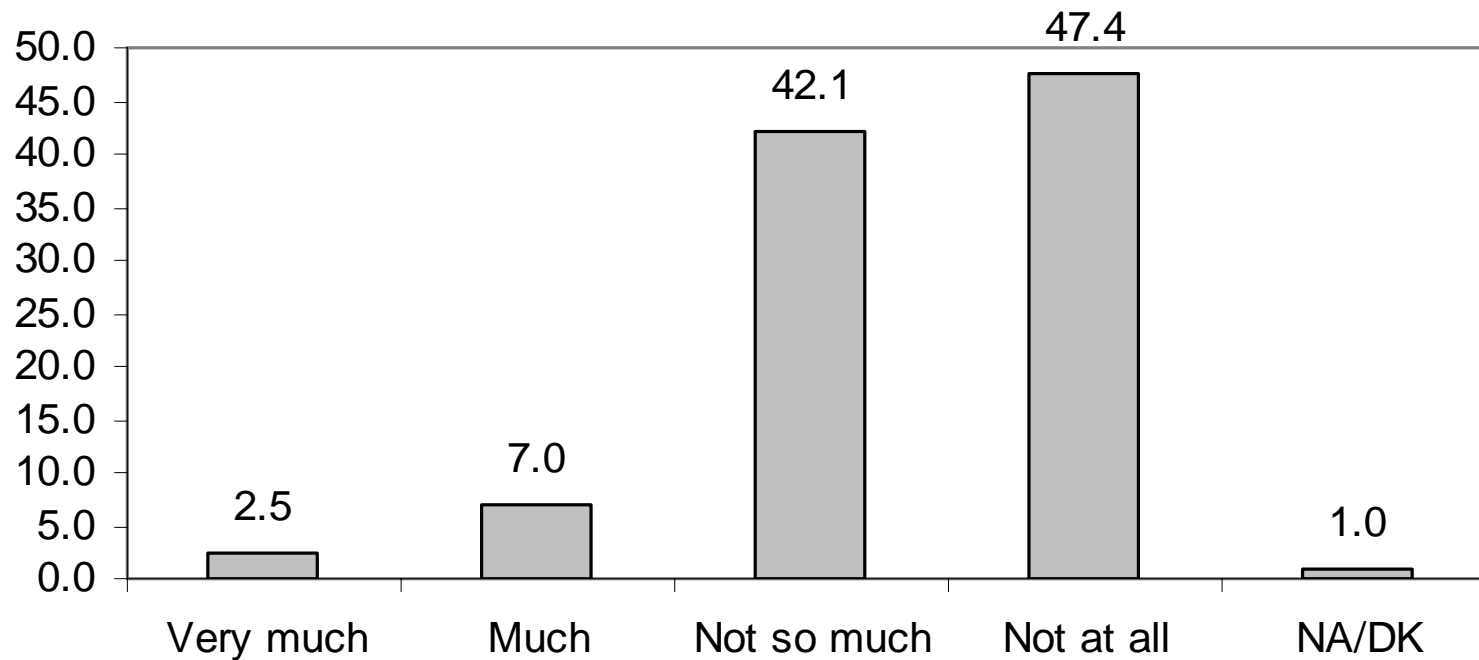
You can learn the best way to practice agriculture from:



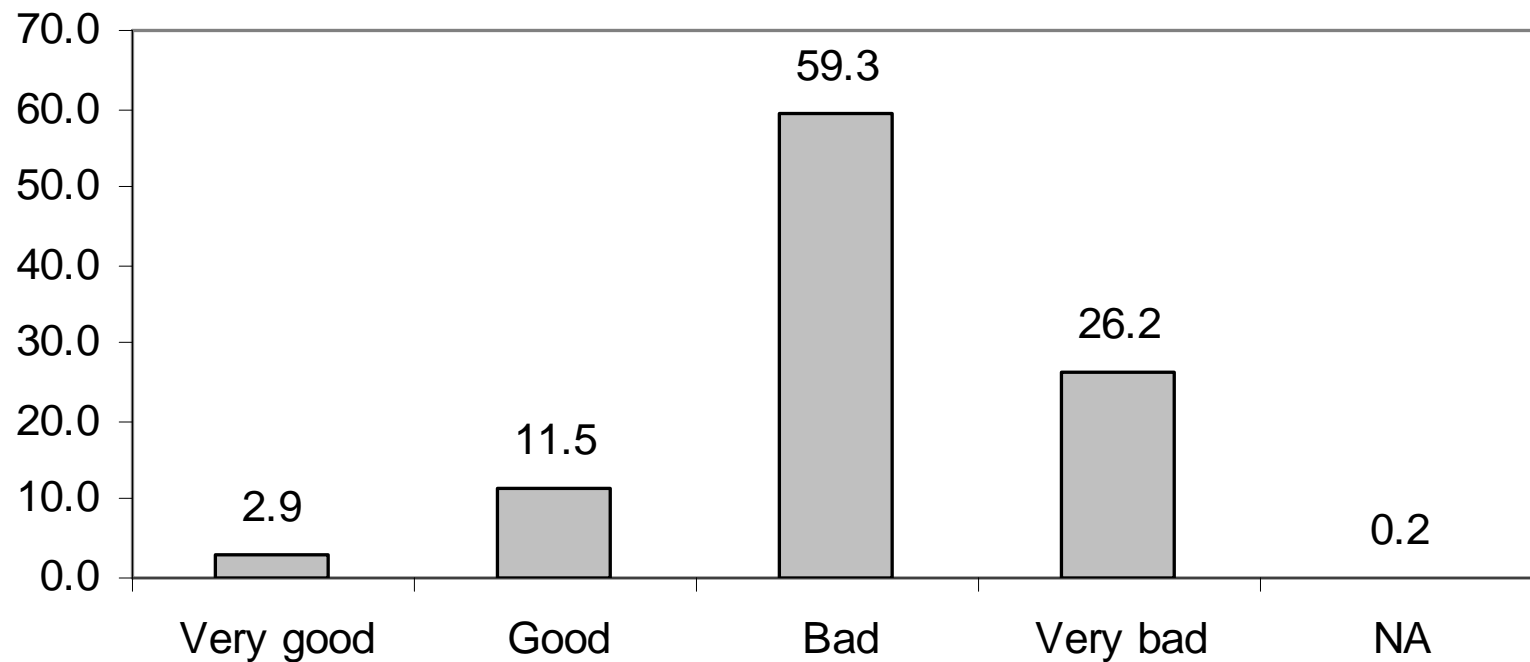
**To what extent do you feel concerned about:
water's quality in your village**



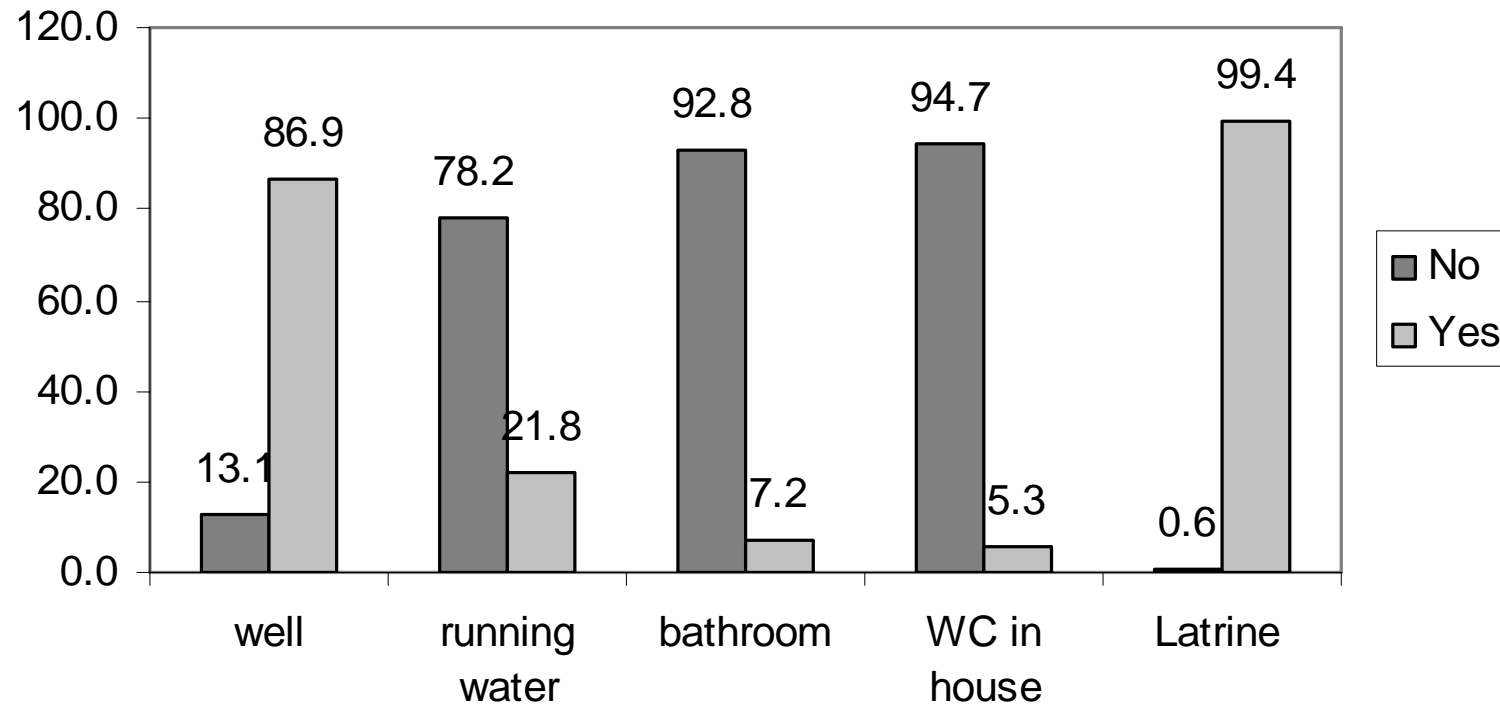
**To what extent do you feel concerned about: air's
quality in your village**



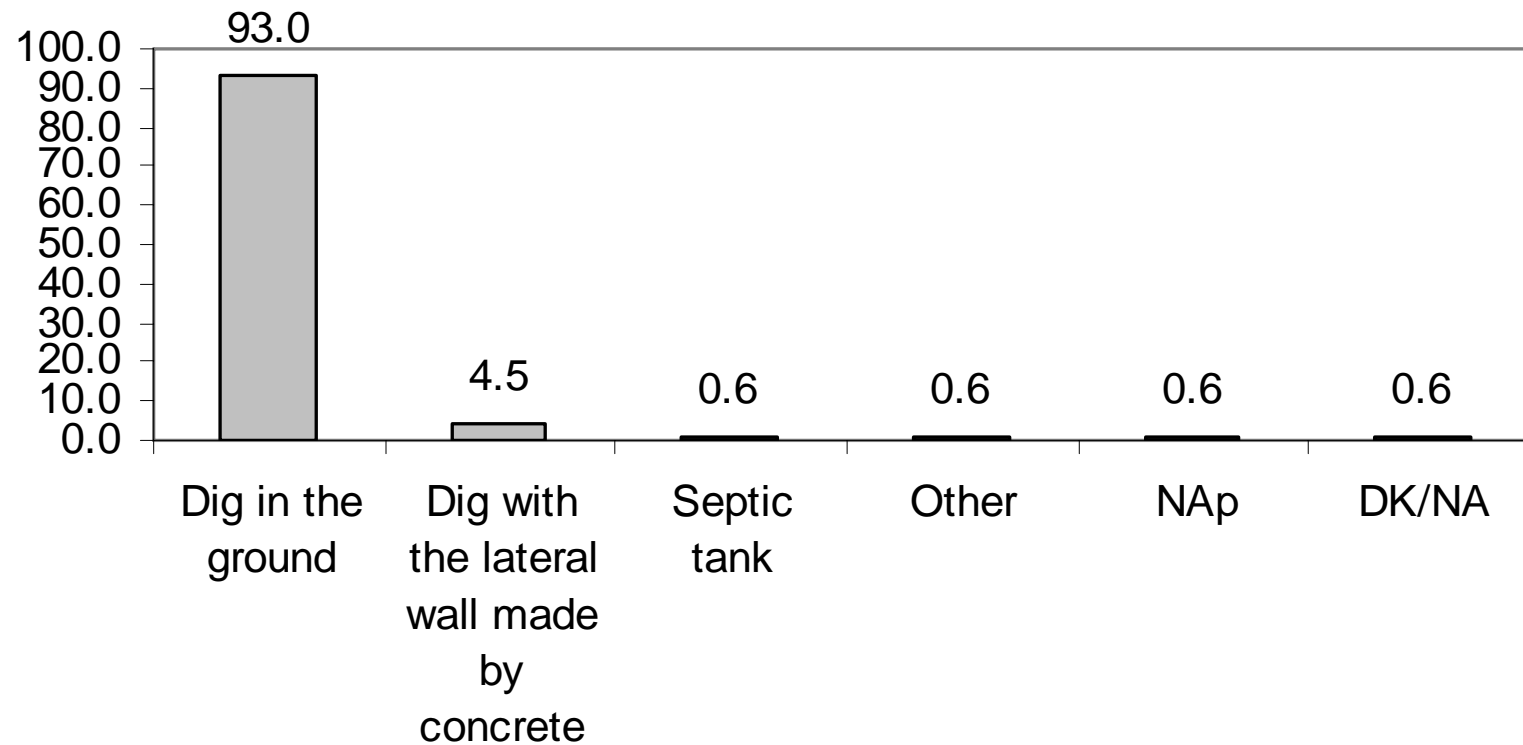
How do you appreciate the water's quality in your village?



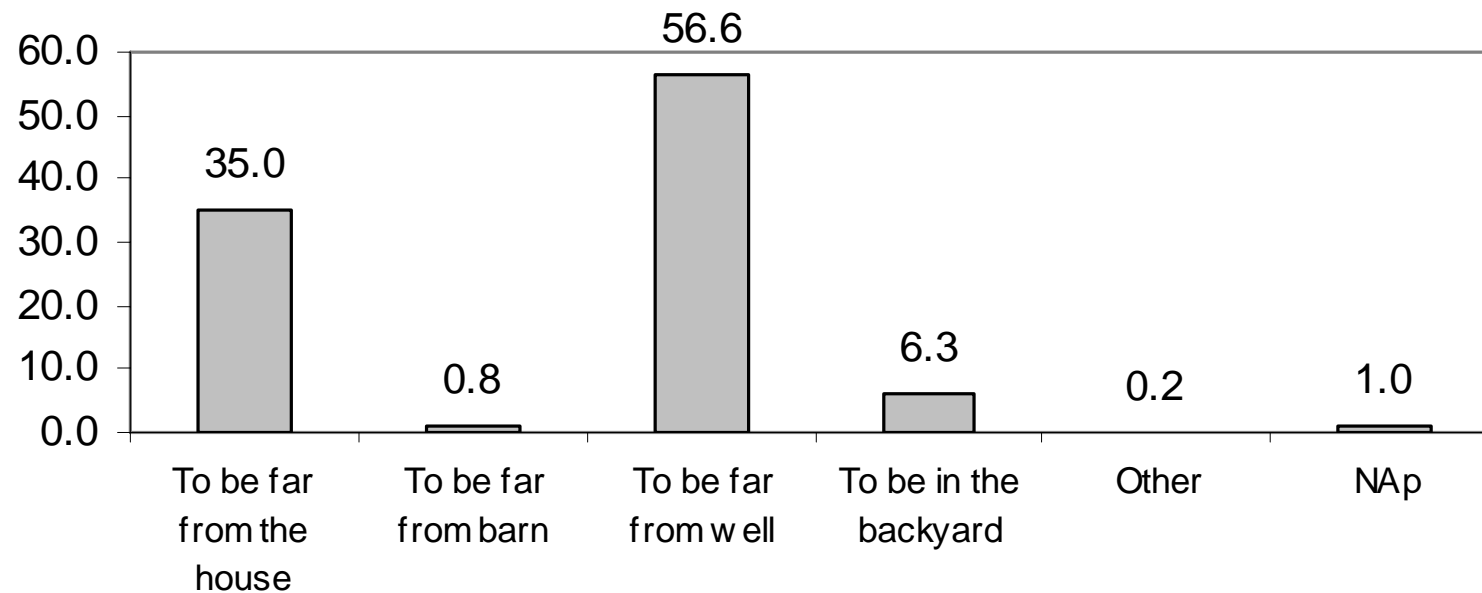
Do you have in your household?



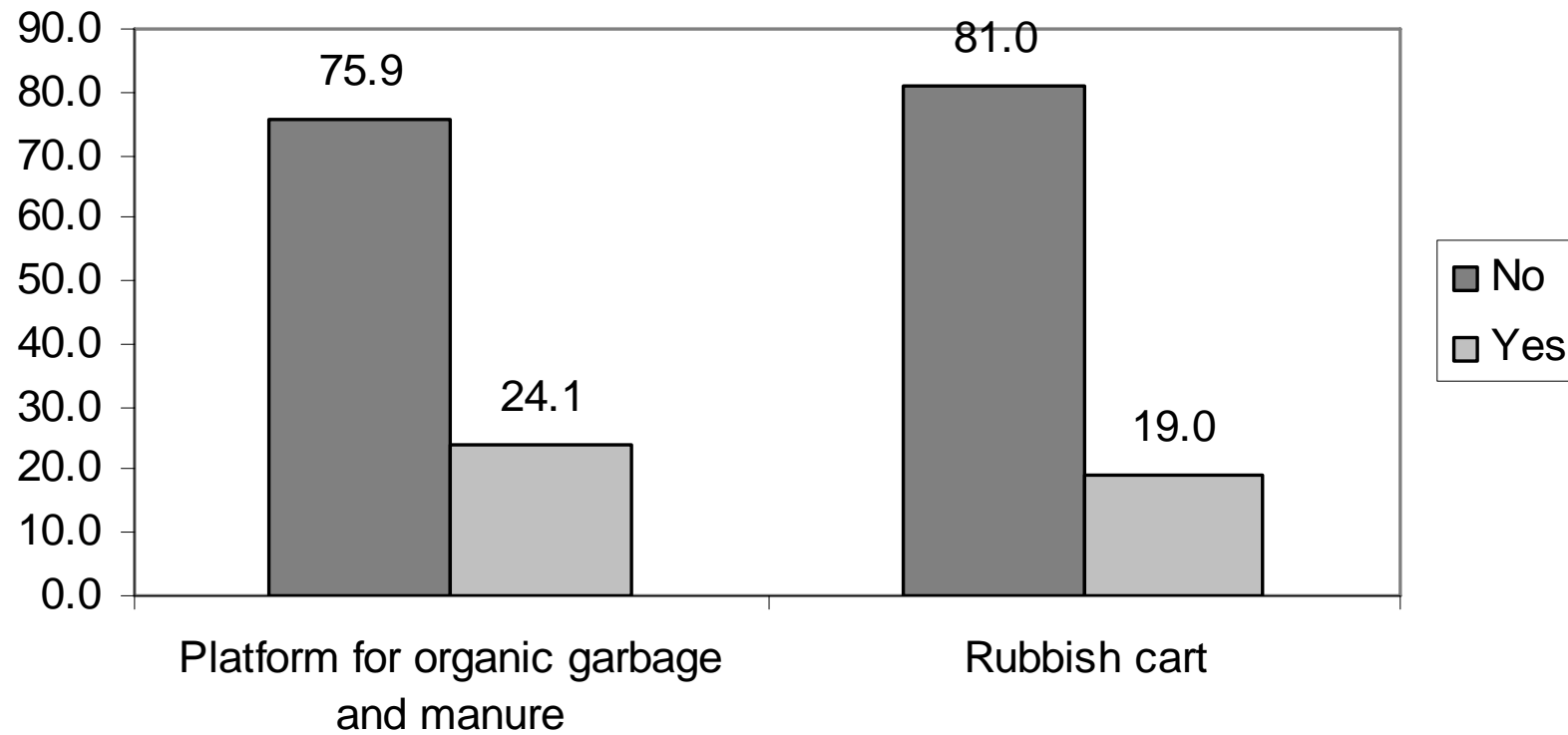
How is it built the hole of your latrine?



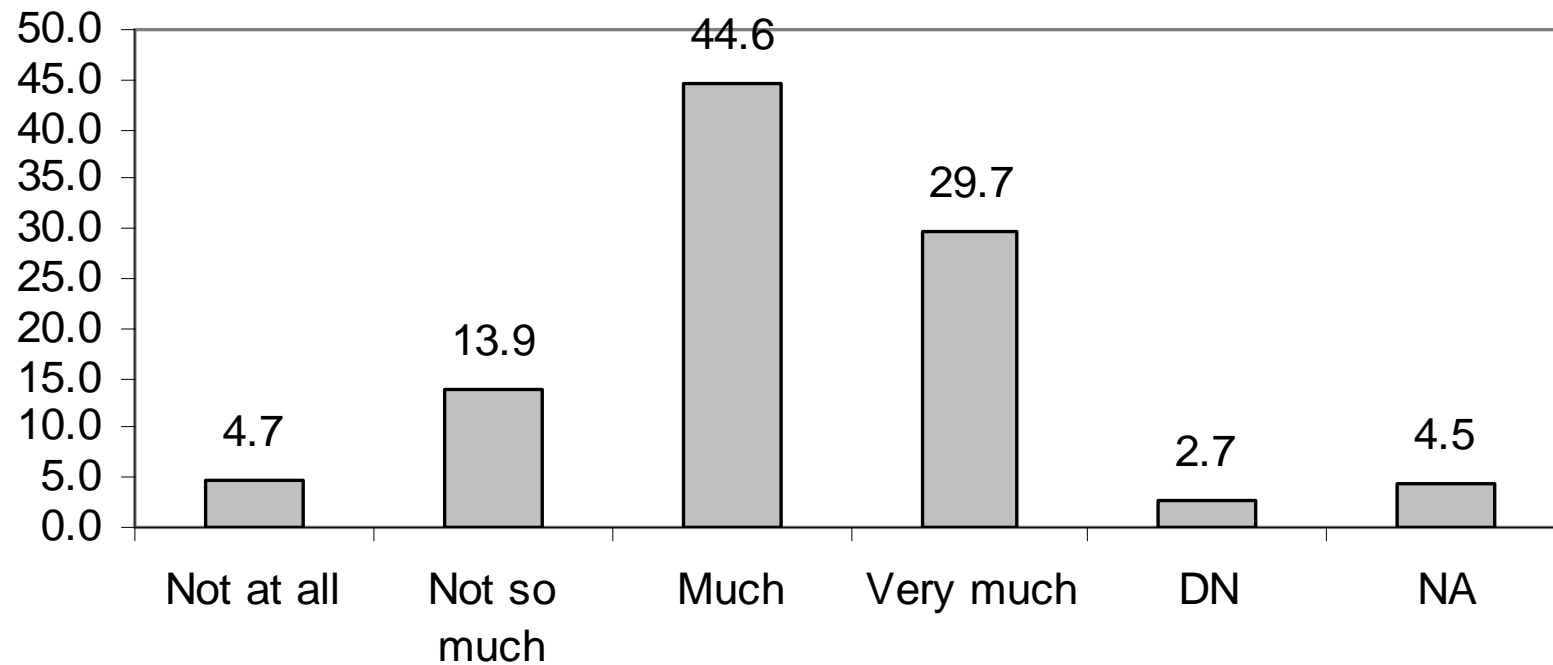
Which is the most important think taking into account when you are choosing the place for the latrine?



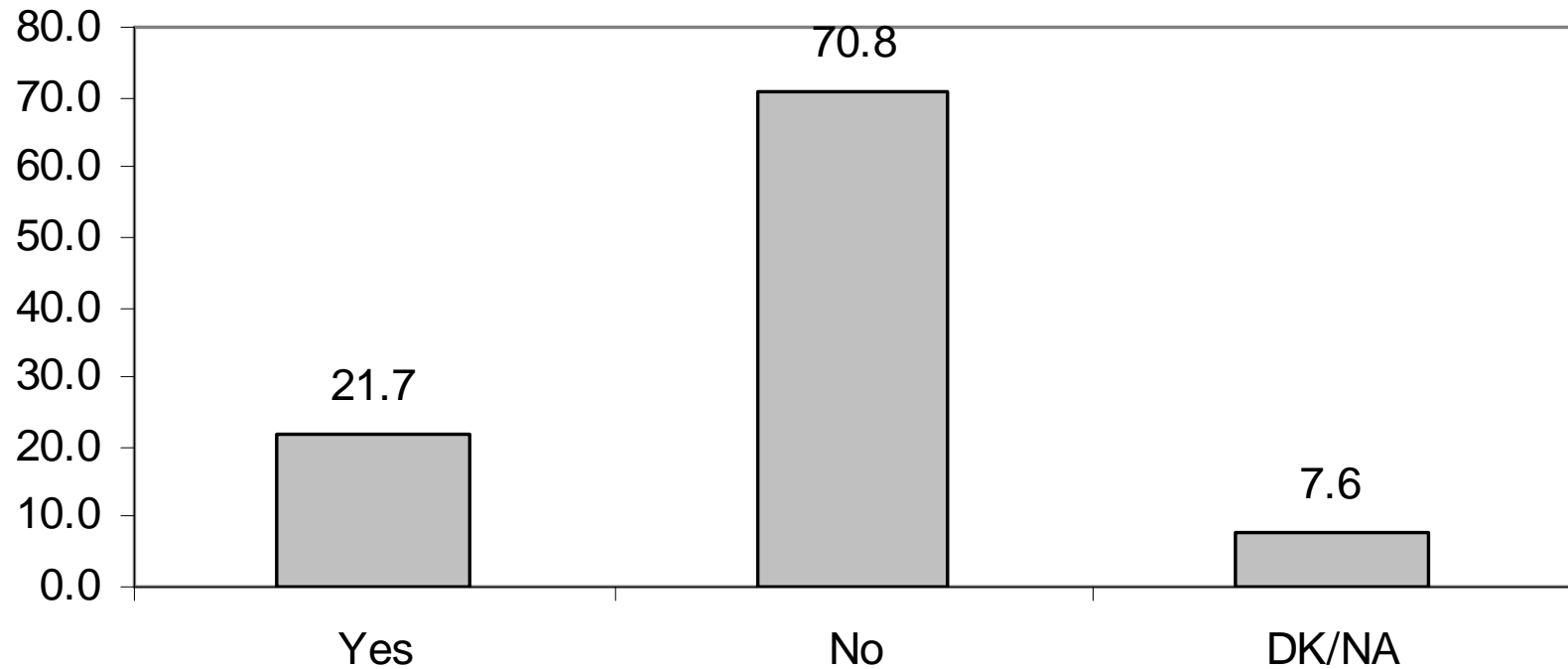
Do you have in your household?



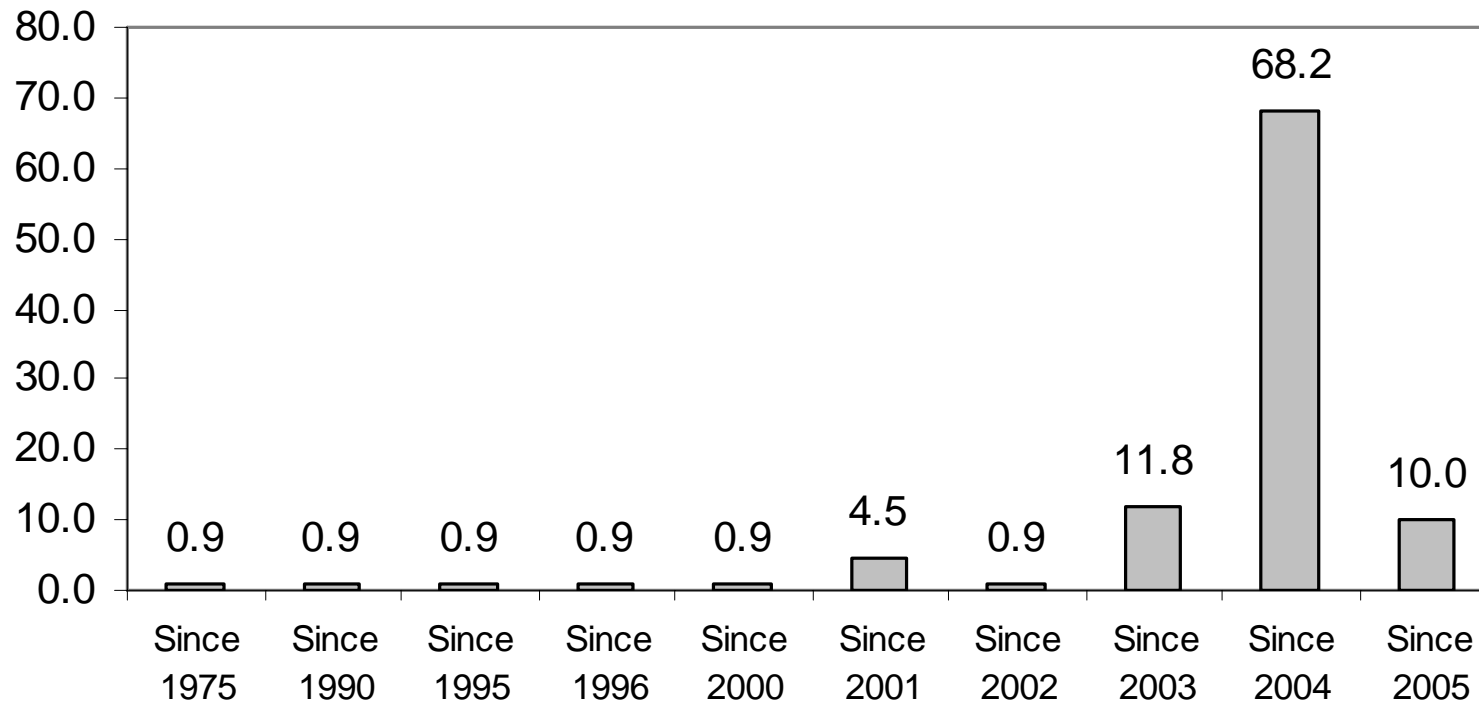
**To what extent do you consider that the platform
for organic garbage and manure is useful?**



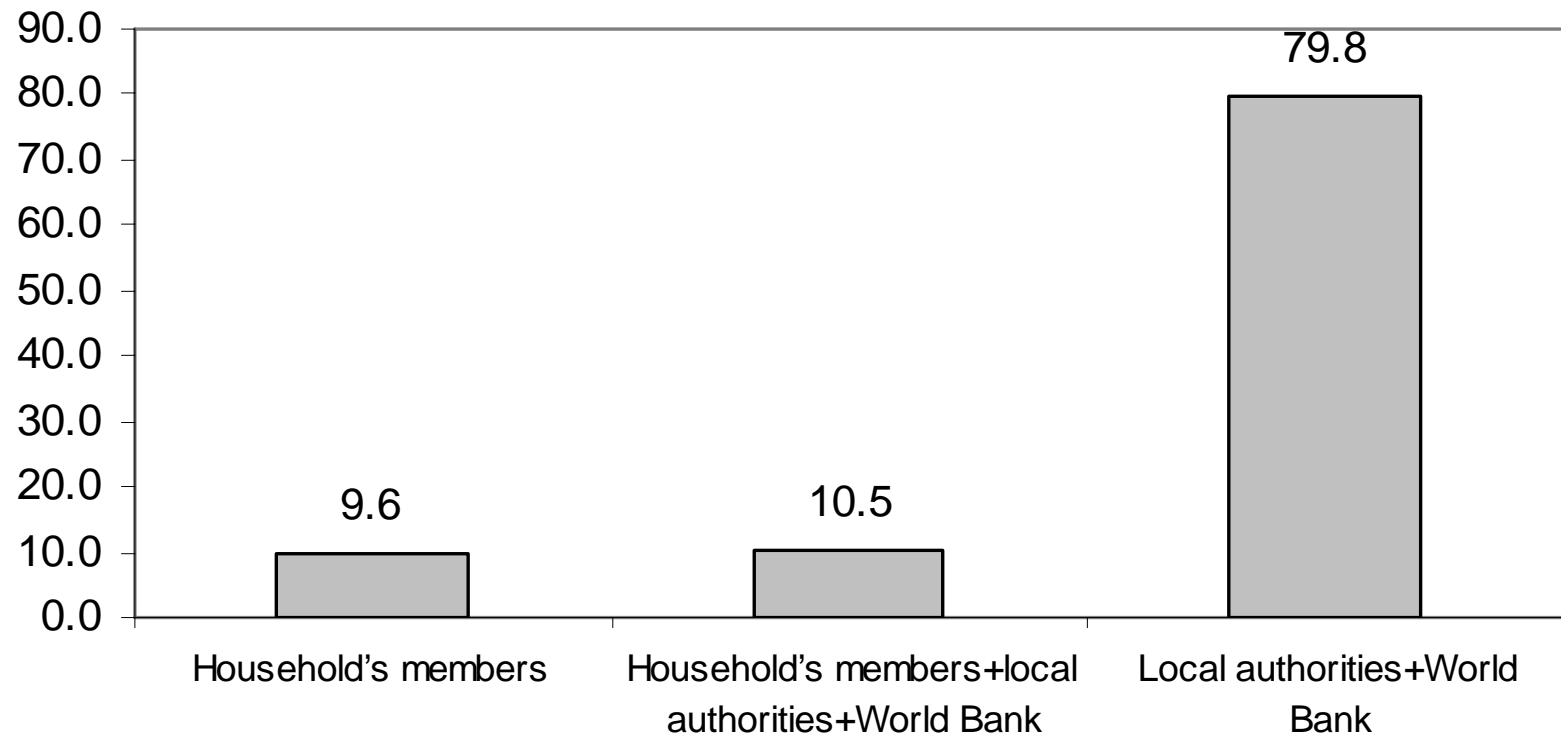
Do you afford to pay for building a garbage and manure platform [if you would not have one]?



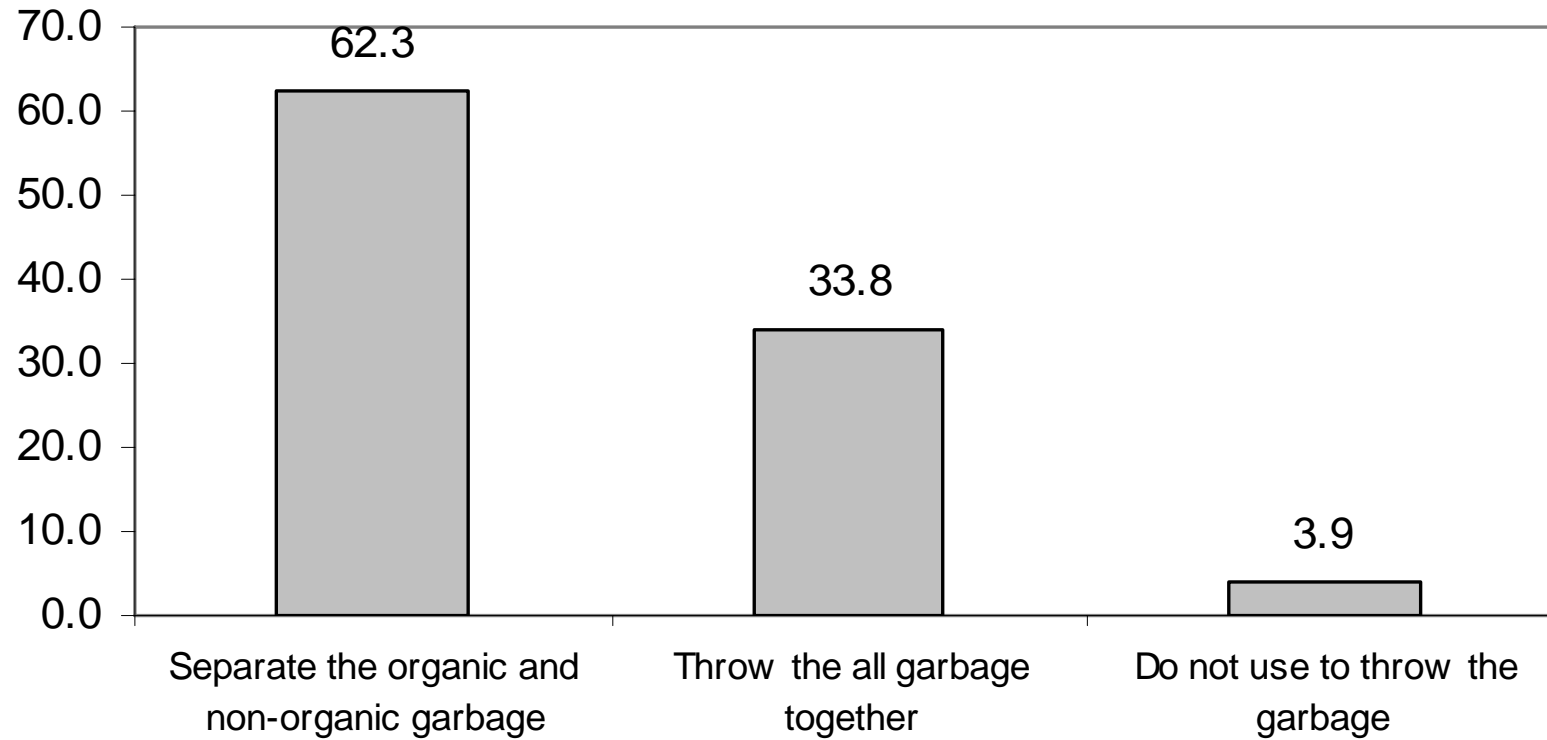
When your platform was built?



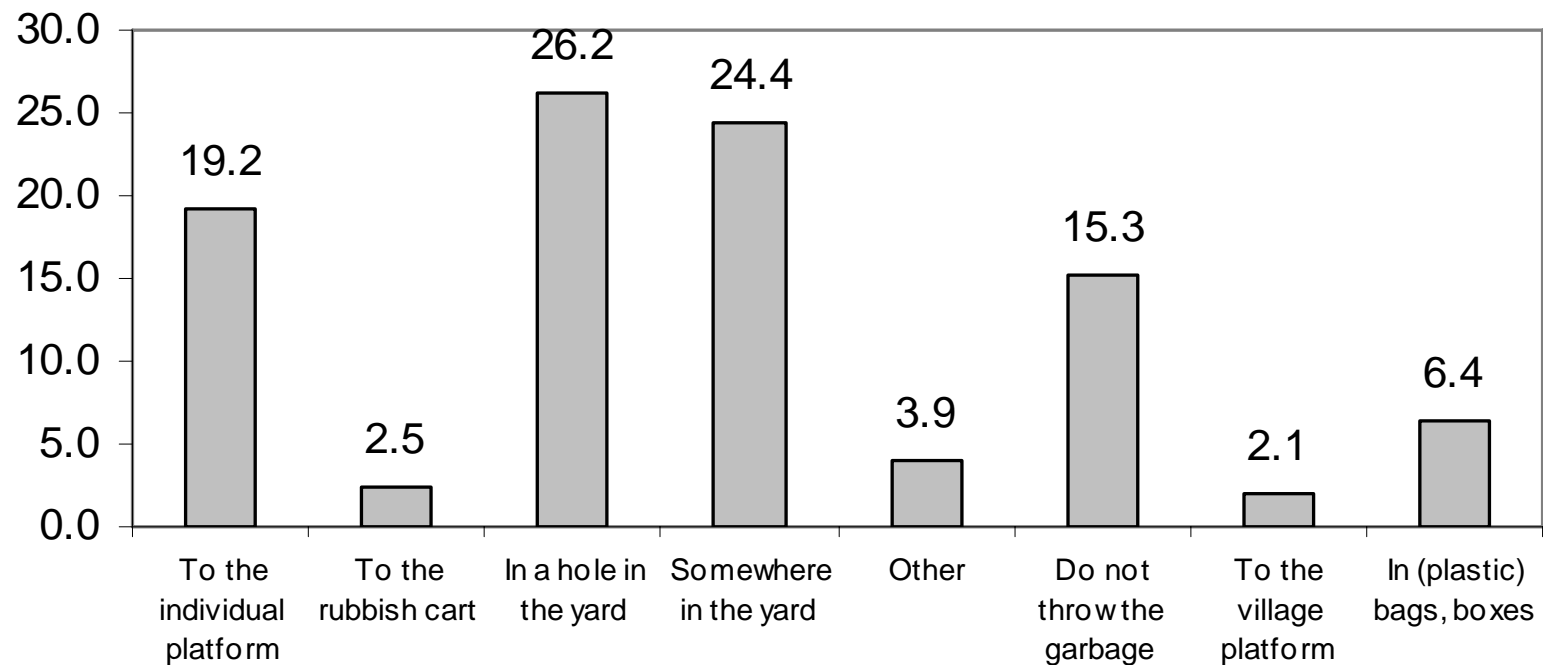
Who built your platform for garbage and manure?



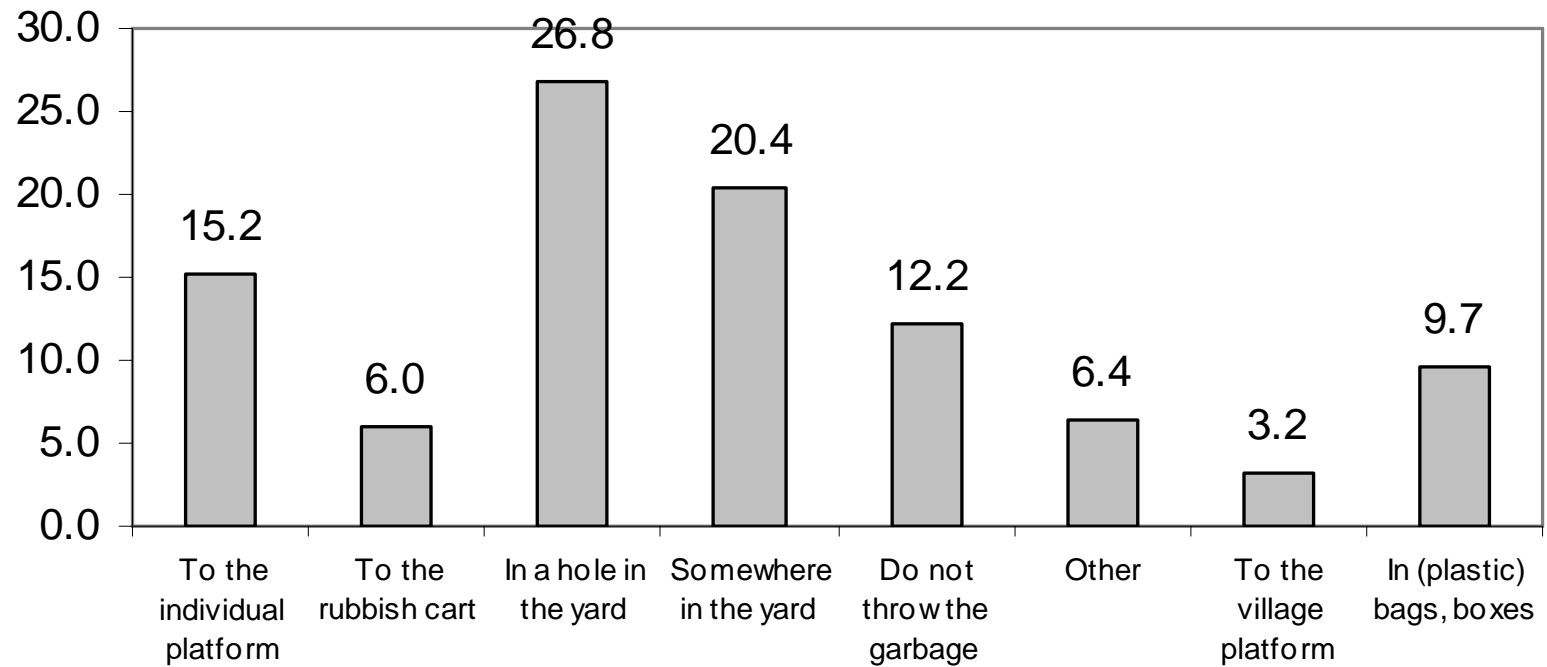
When you throw the garbage:



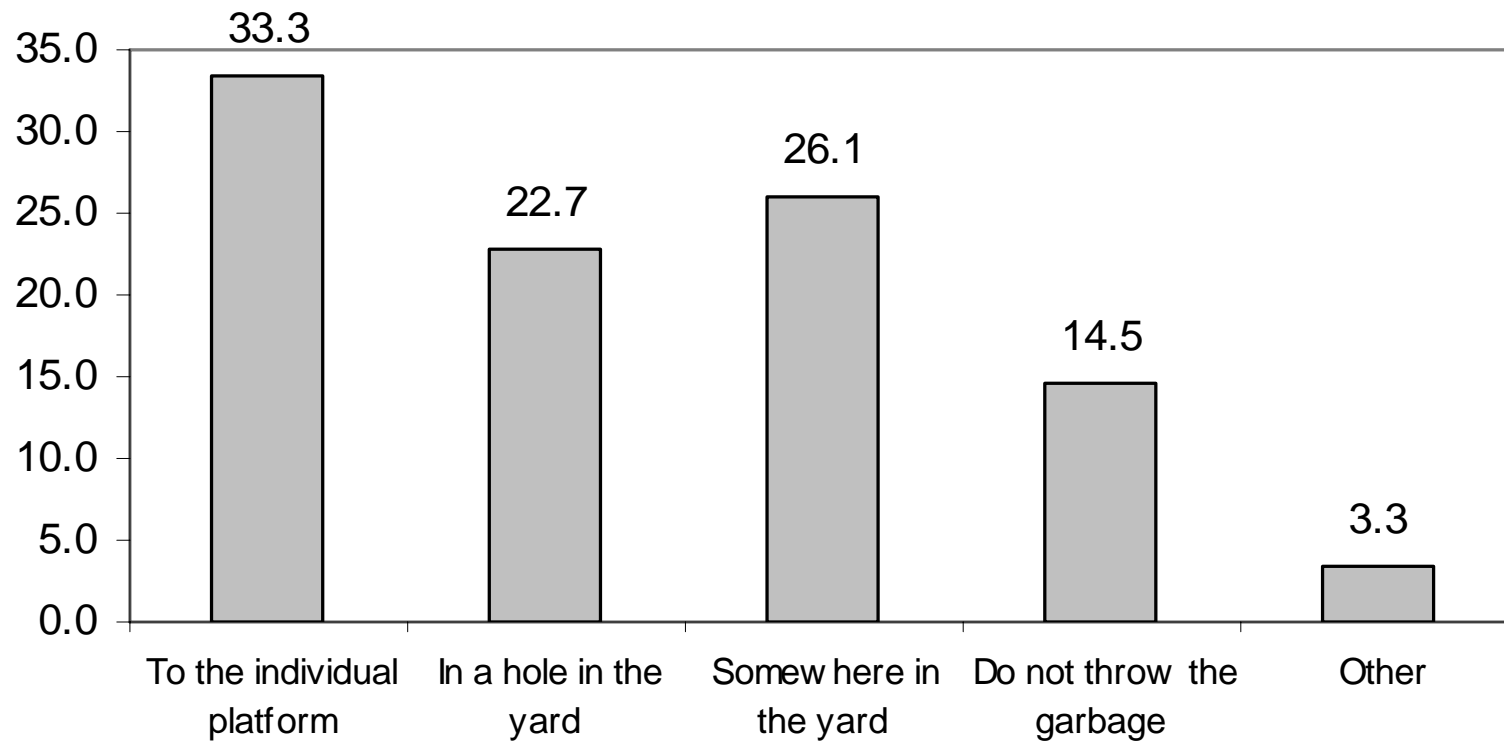
Where do you use to throw the organic garbage (food remains)?



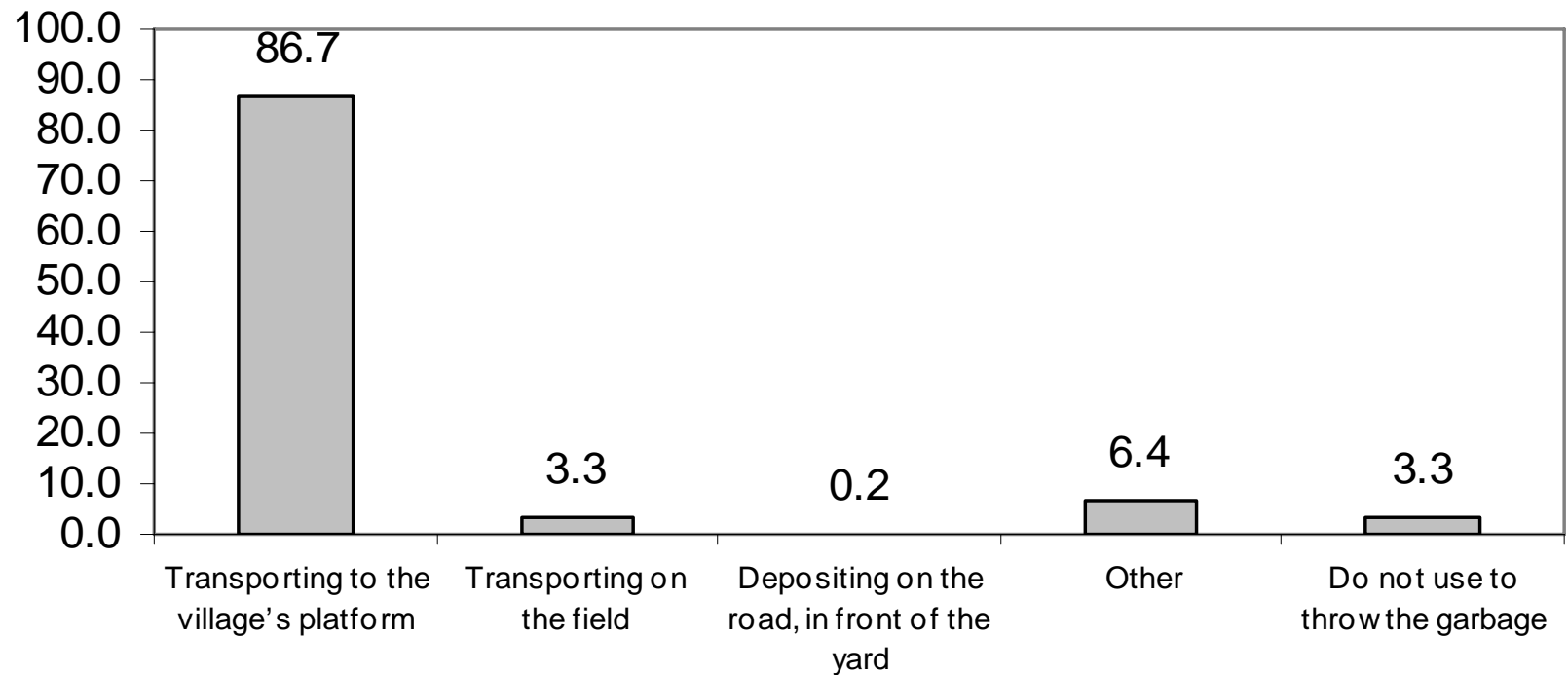
Where do you use to throw the non-organic garbage (glass, iron, plastic)?



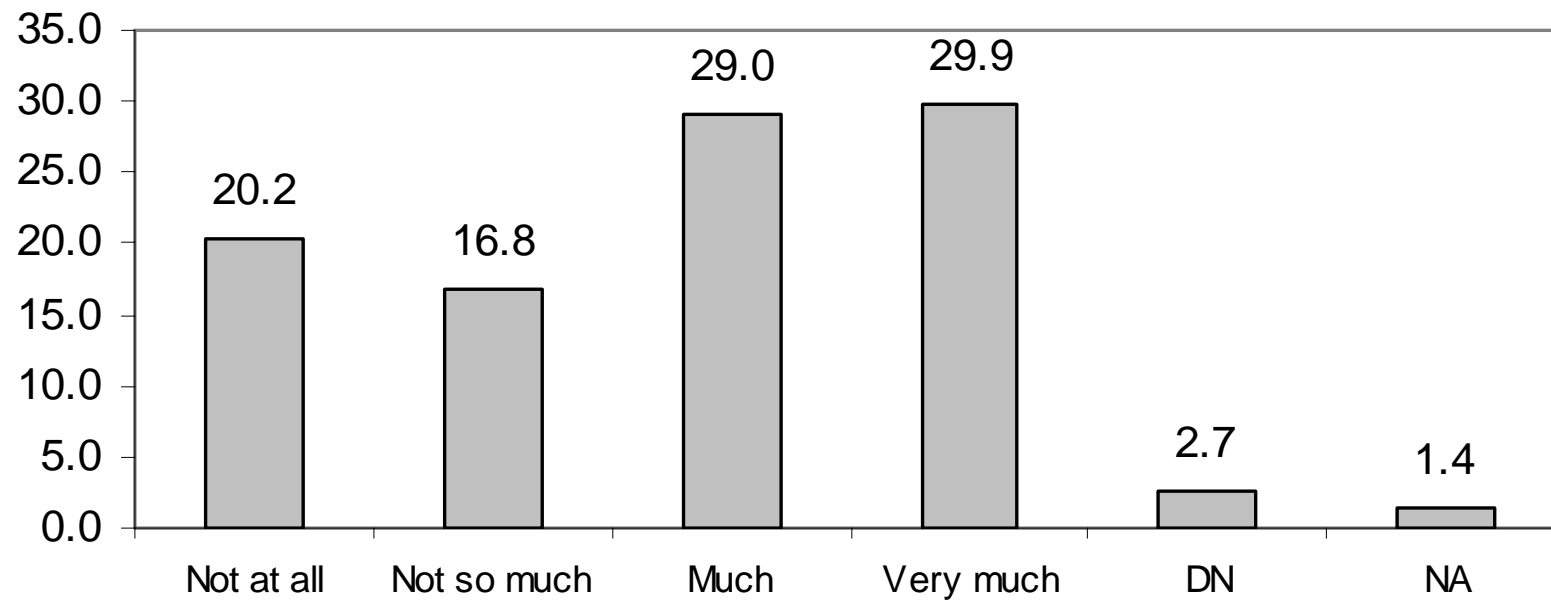
Where do you deposit the manure?



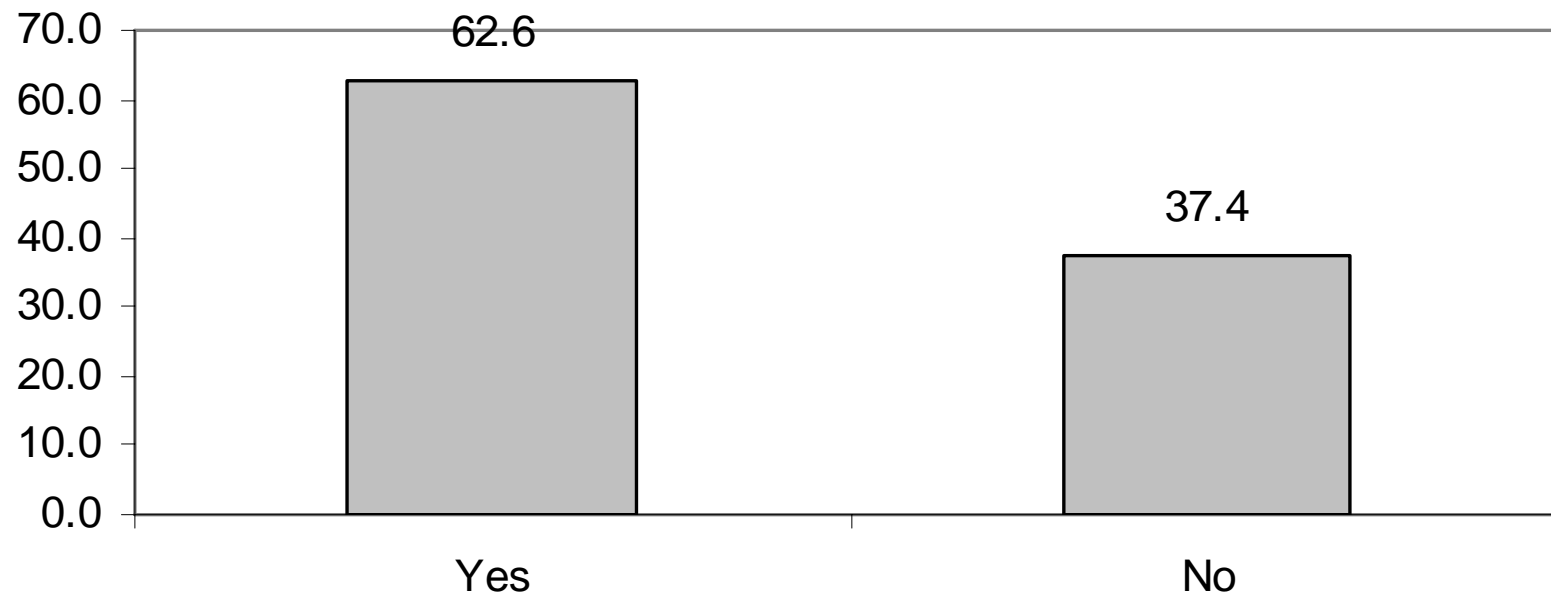
What are you usually doing when you have too much garbage in your yard?



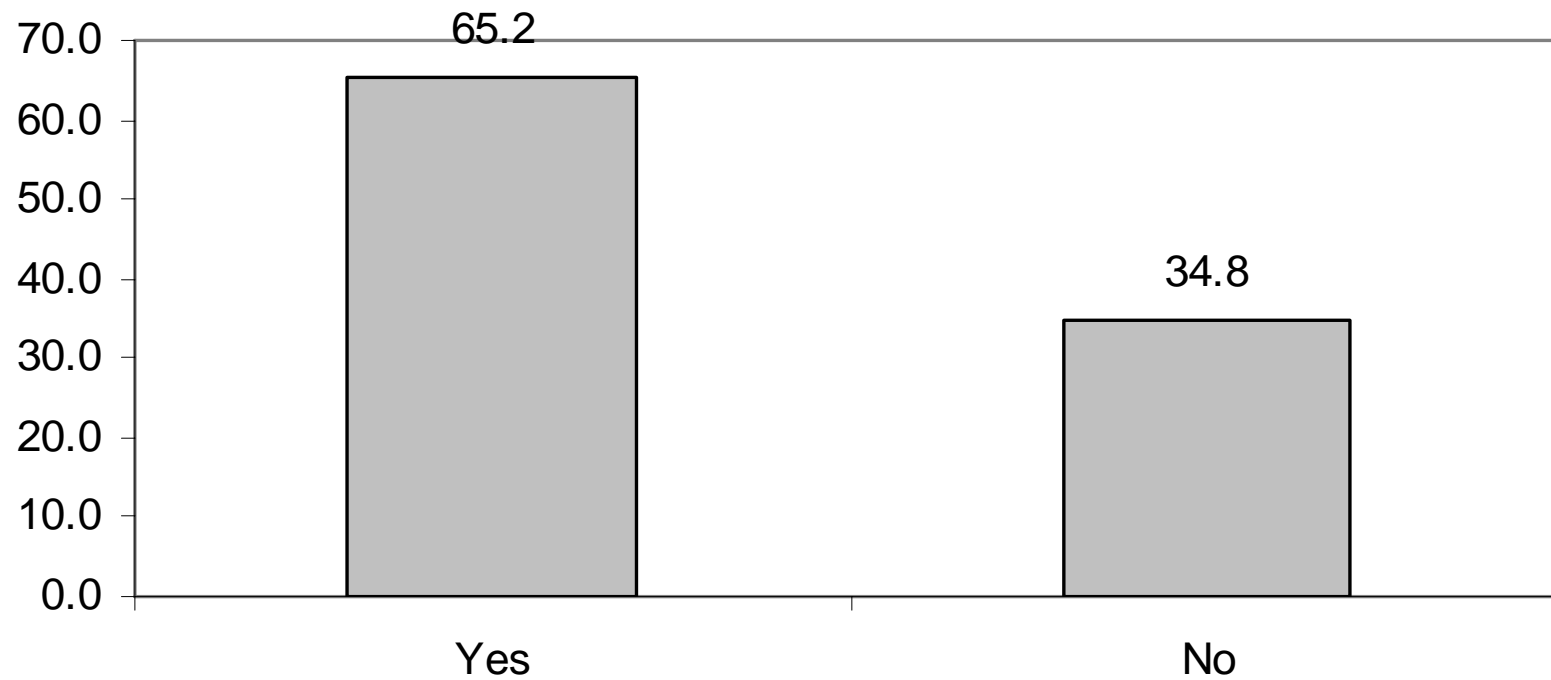
To what extent do you believe that the establishment of a communal service for garbage collection would be useful for your commune?



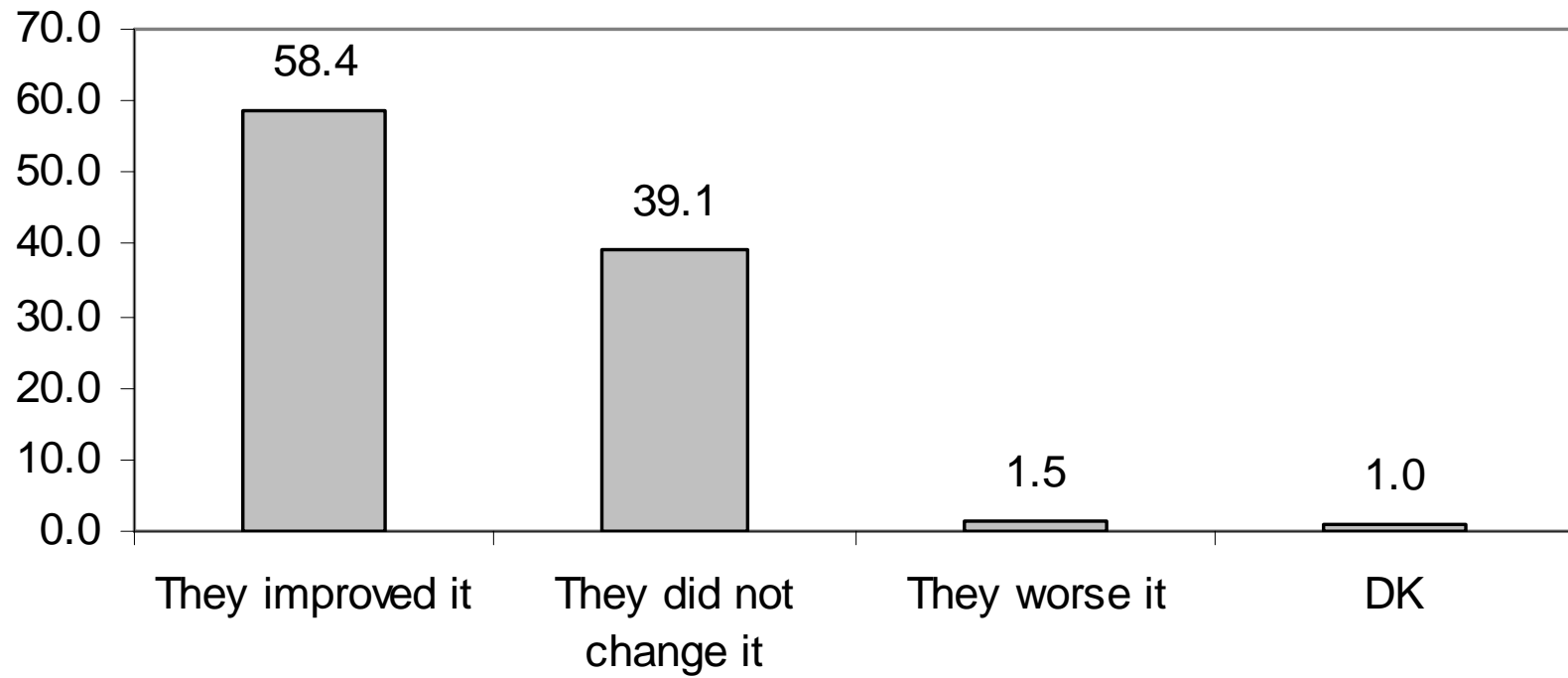
Did you hear about a World Bank project in the area which aims to improve the agricultural activity and to protect the environment?



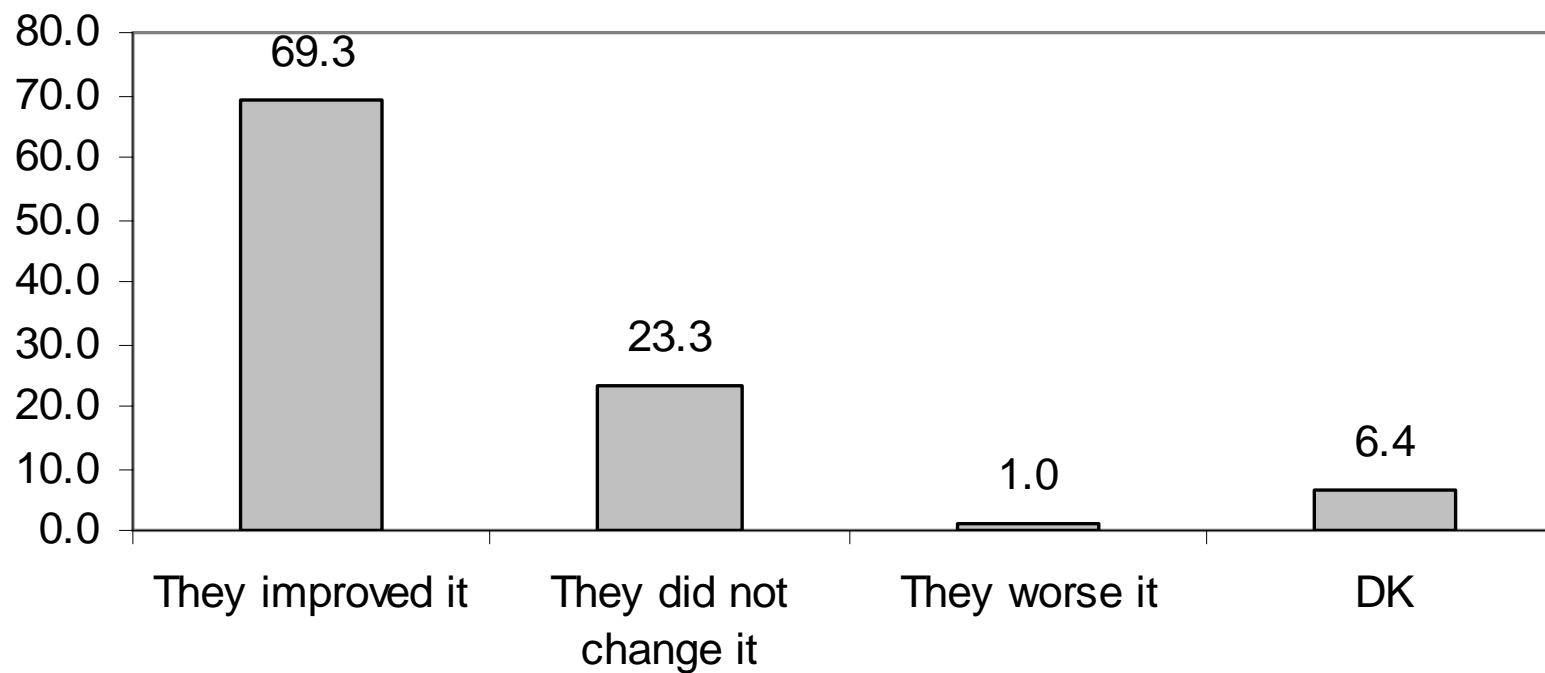
Did you hear which the main goal of the project is?



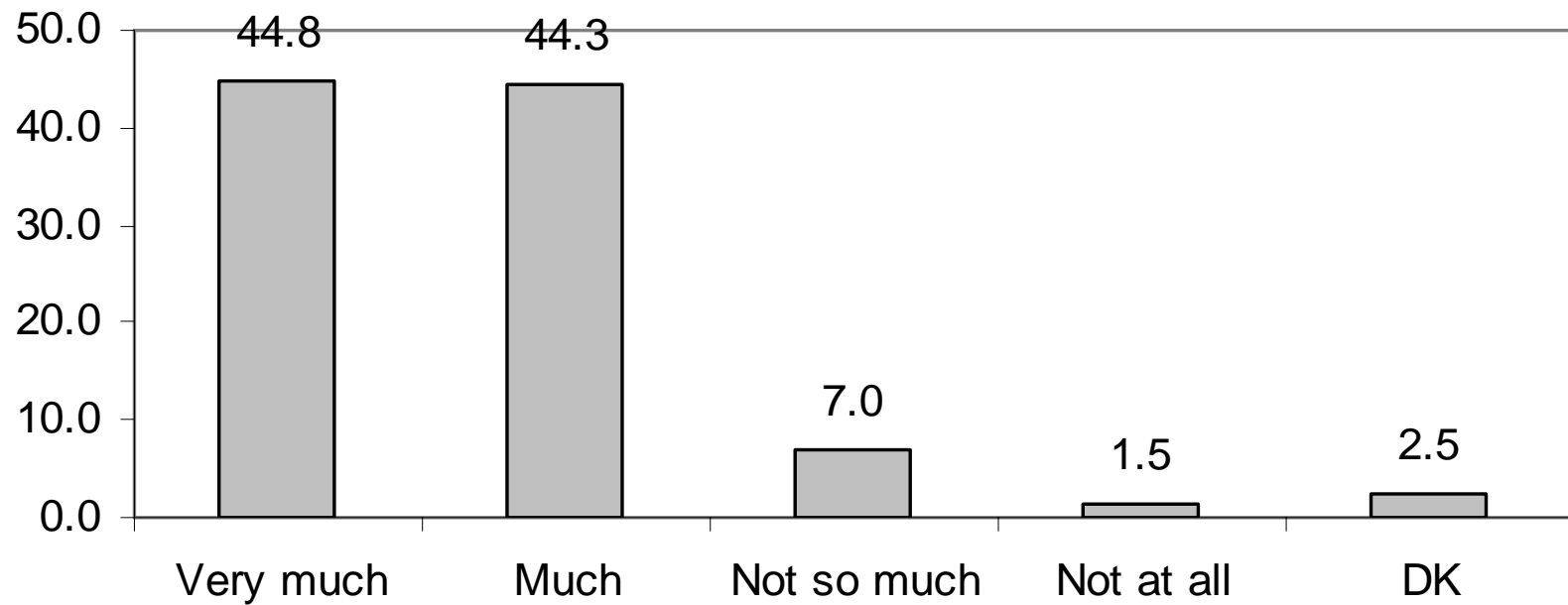
In your opinion, how the project has influenced your life?



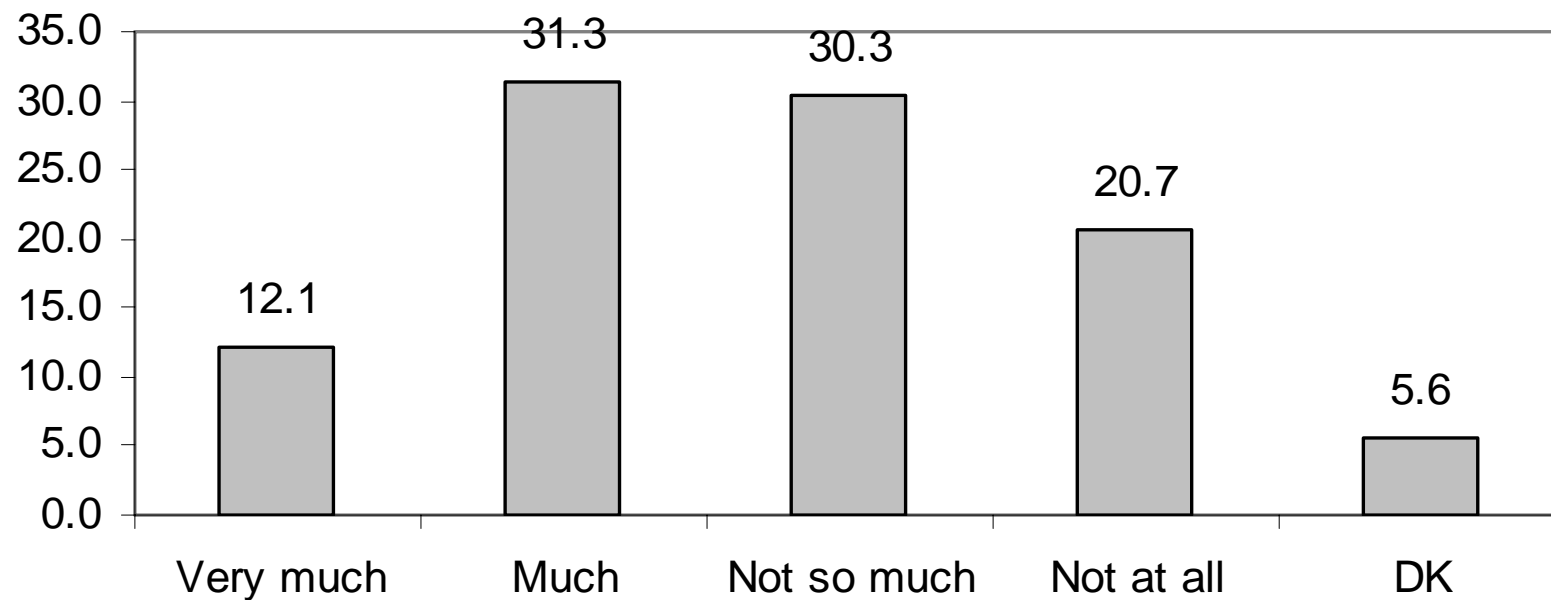
**In your opinion, how the project has influenced
the village's people life?**



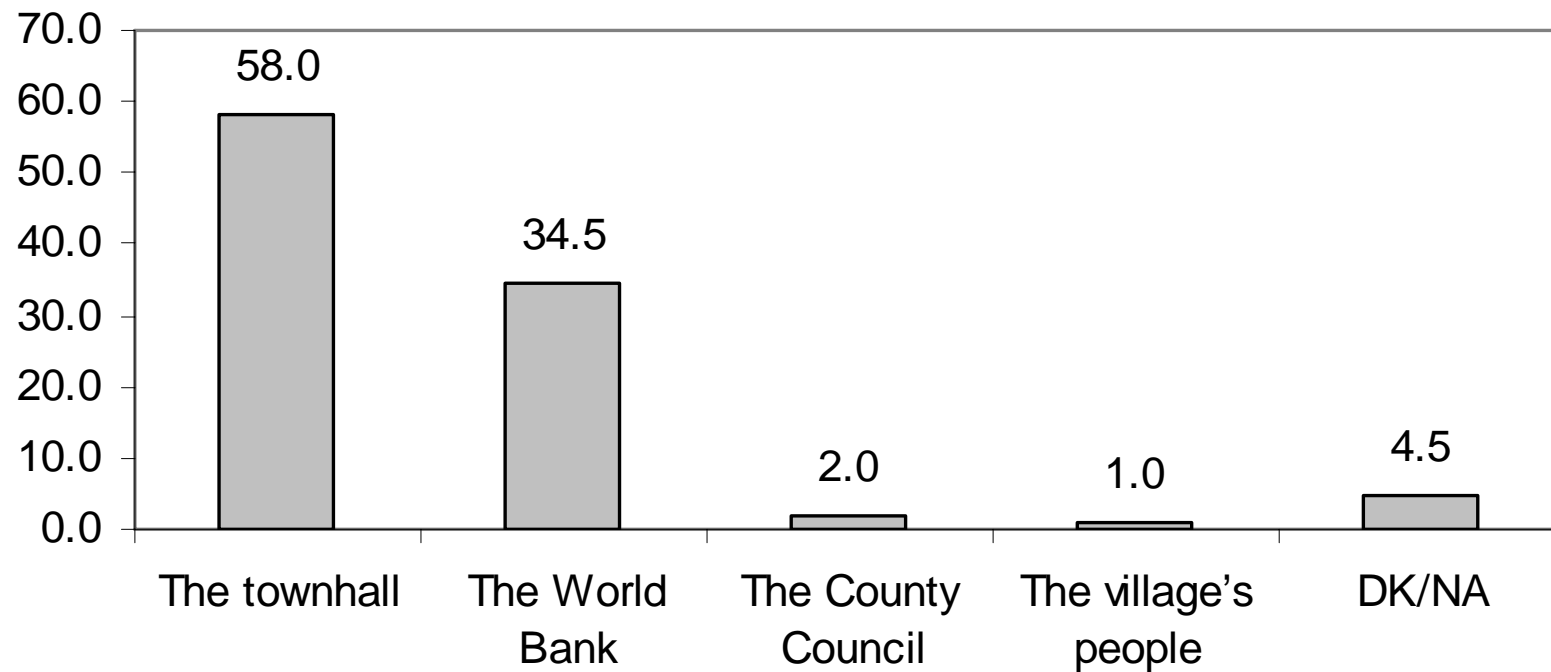
To what extent do you consider that local authorities (townhall) have helped to the project's implementation?



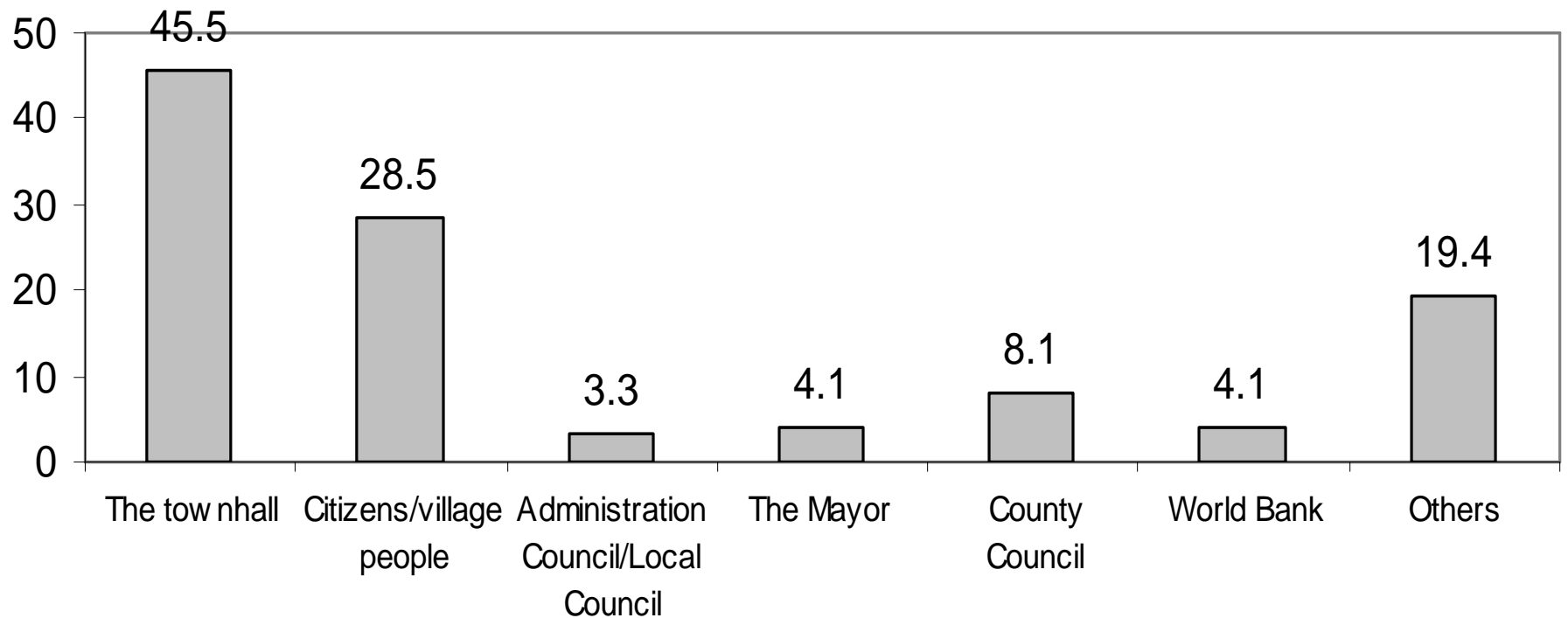
**To what extent do you consider that the village's
people actors have helped to the project's
implementation?**



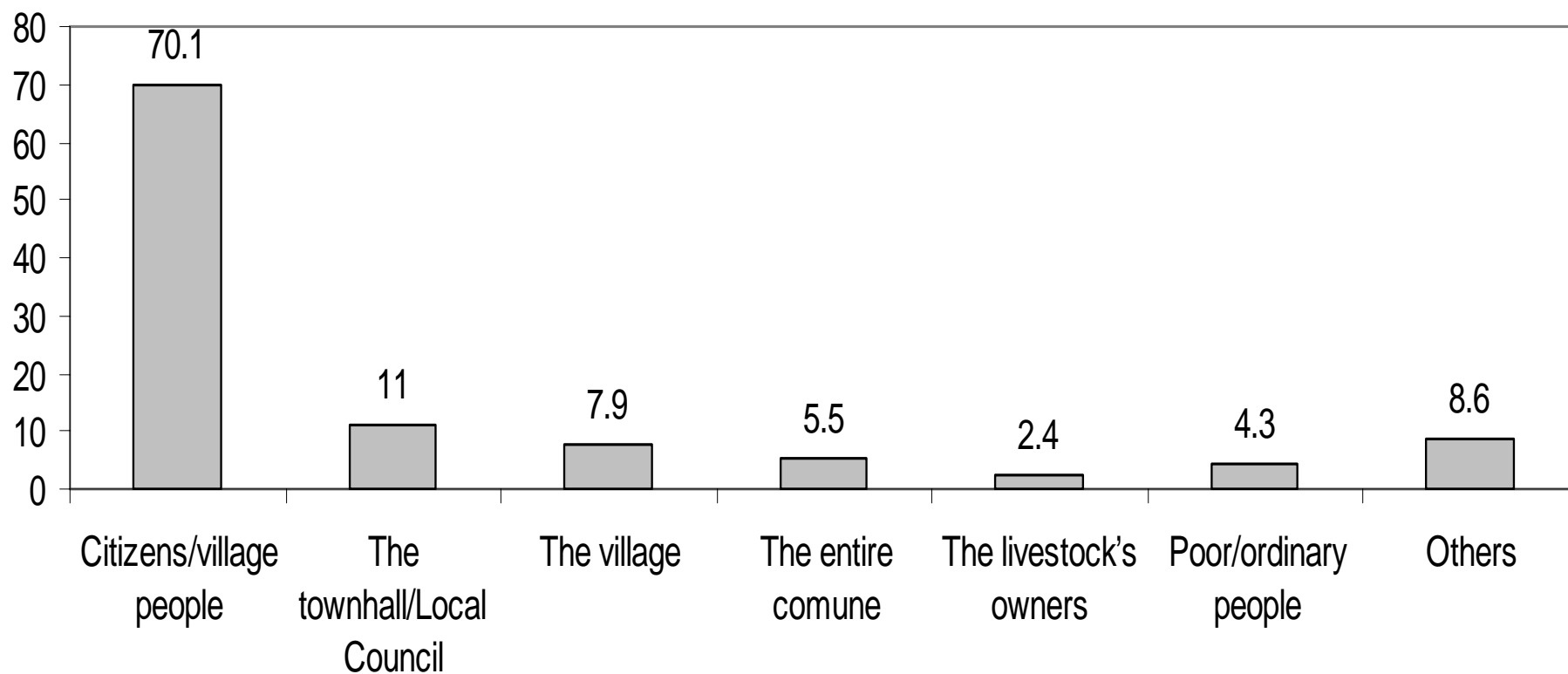
In your opinion, who was the main actor in the project's implementation?



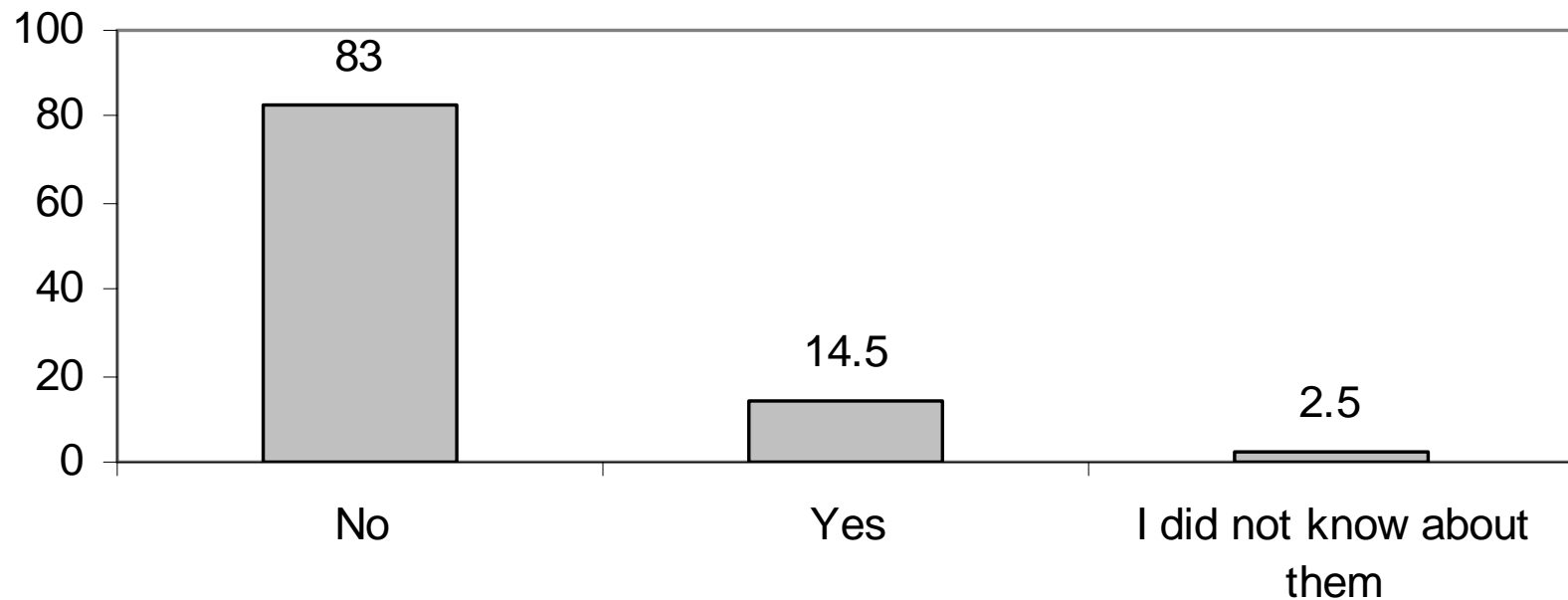
In your opinion, who else should be involved in the project's implementation?



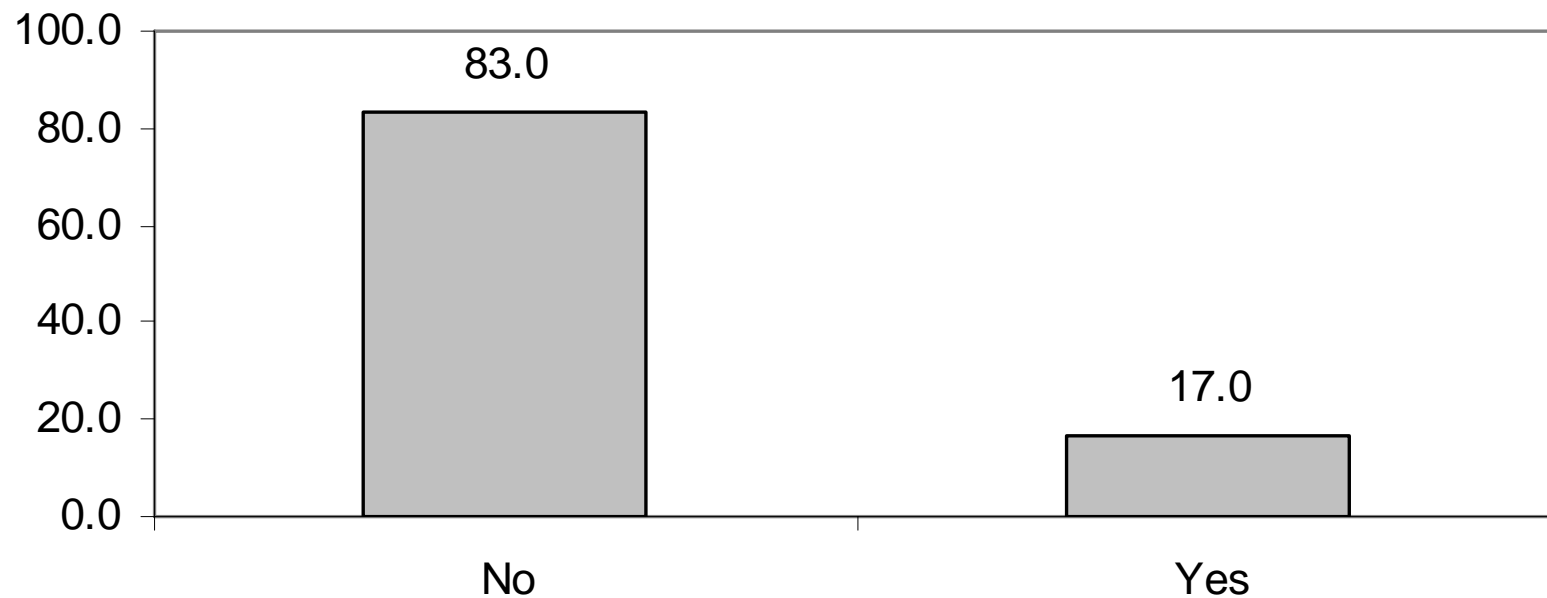
In your opinion, who was the main beneficiary of the project?



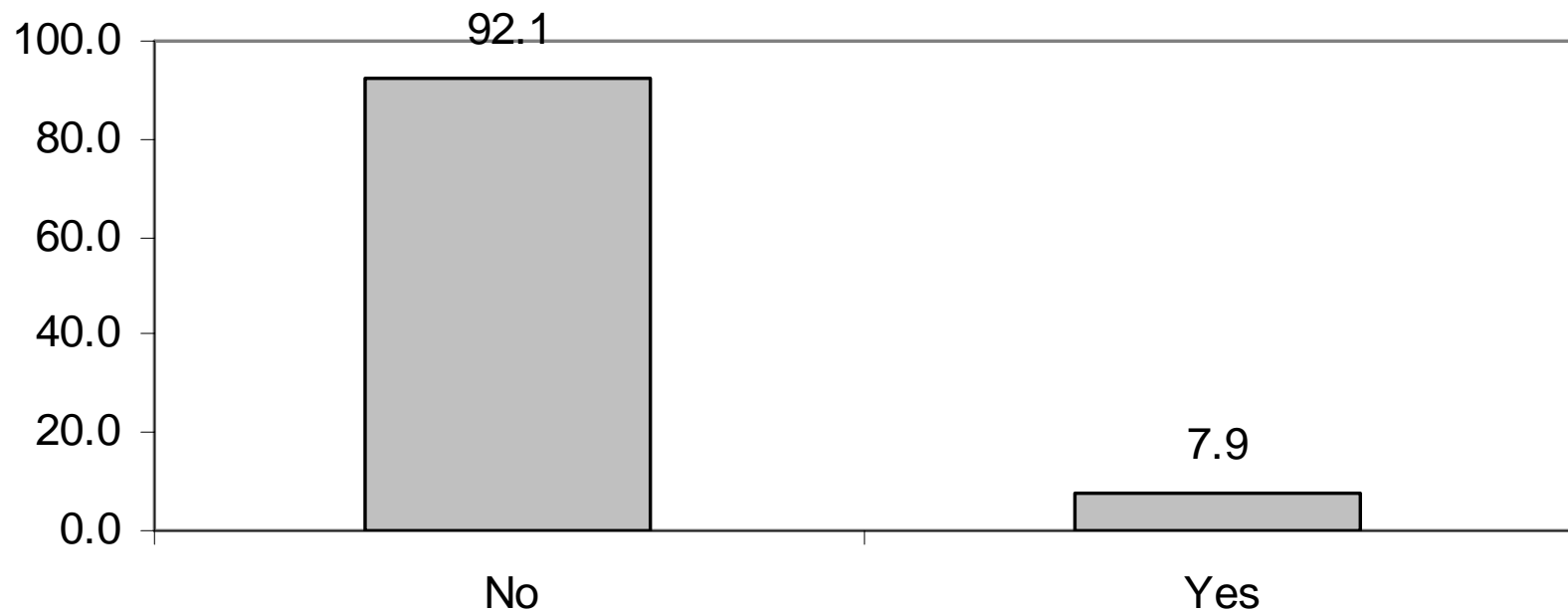
**During the last years have you participated in
courses for farmers about environmental friendly
agricultural practices?**



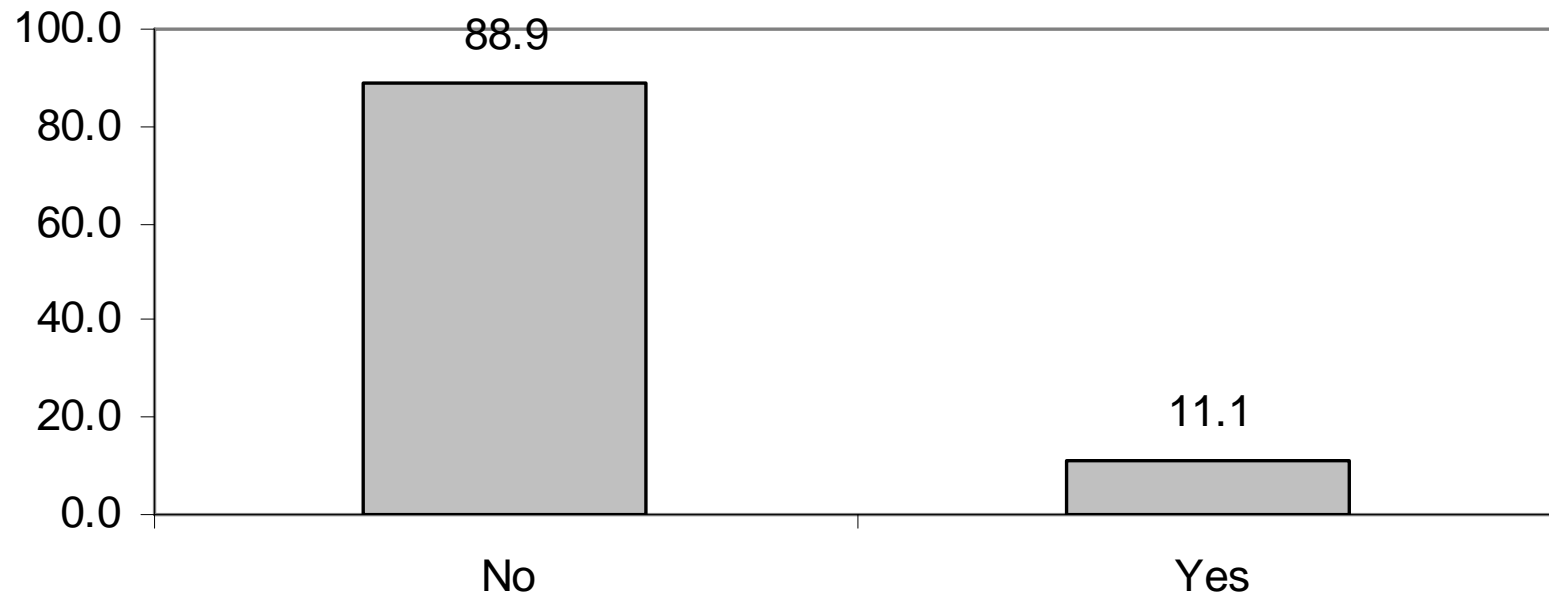
**During the last years have you visited
experimental lot prepared using environmental
friendly agricultural practices?**



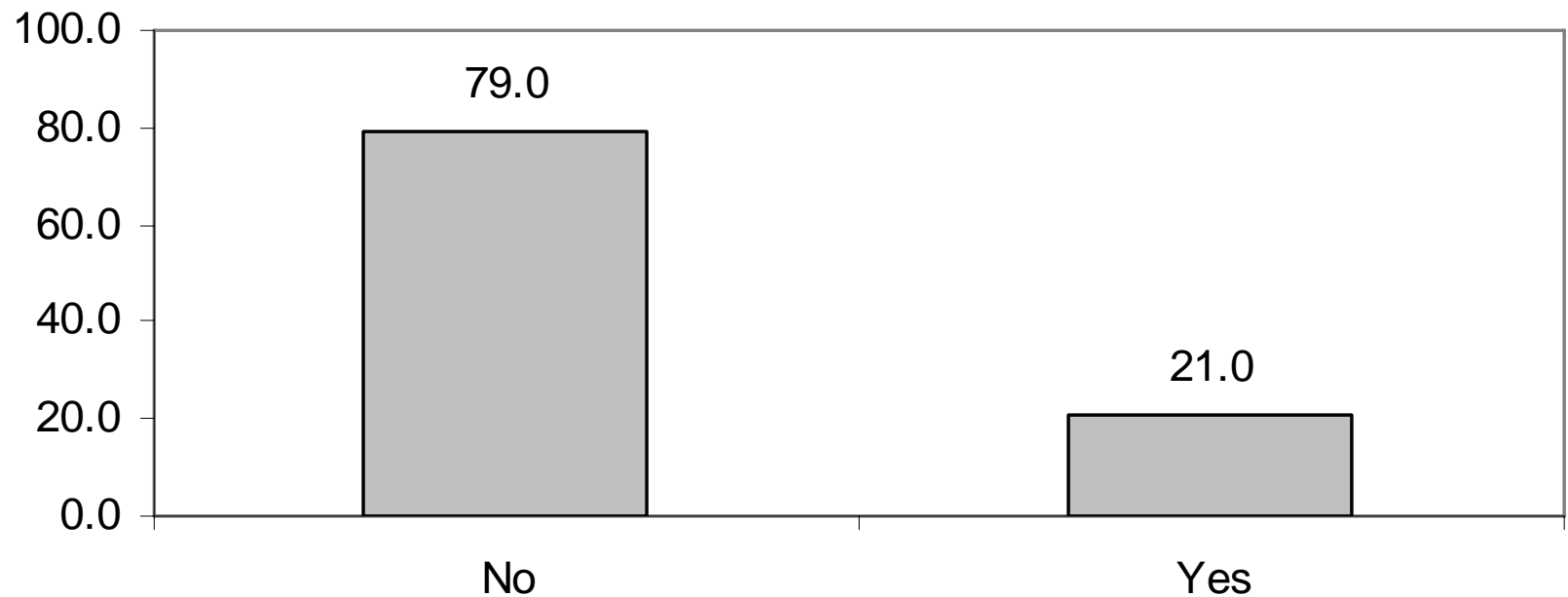
**During the last years have you read in Ecological
Agriculture about environmental friendly
agricultural practices?**



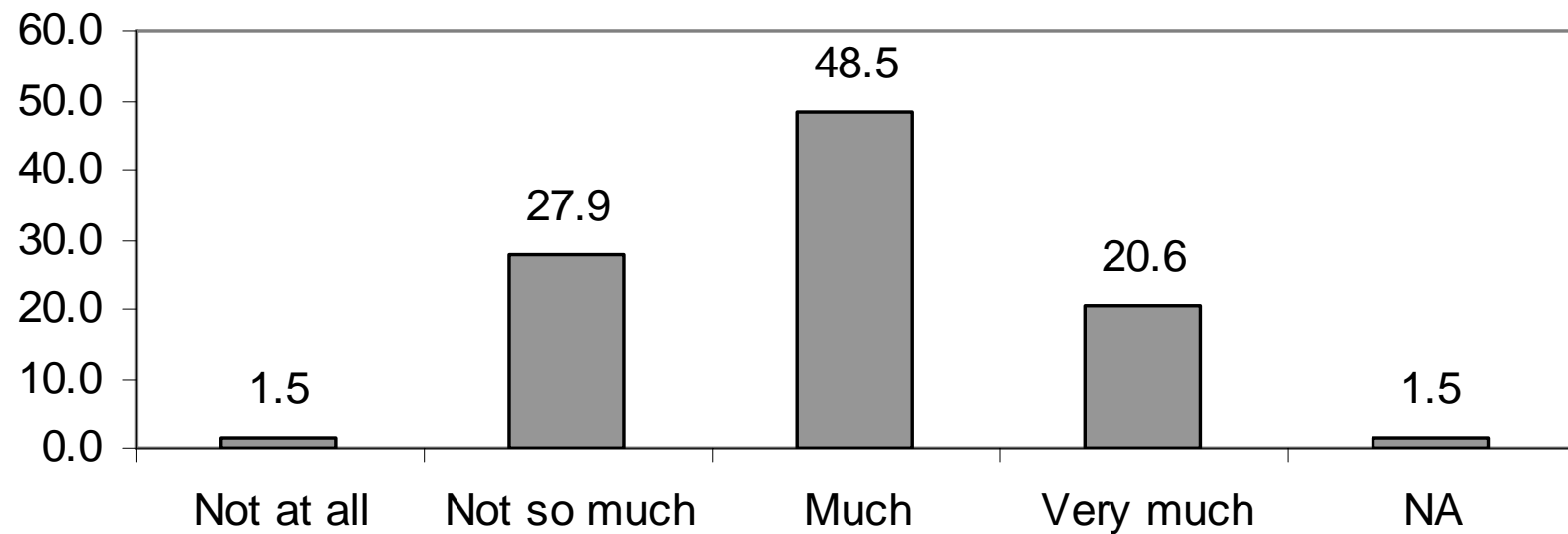
**During the last years have you received
brochures, books about environmental friendly
agricultural practices?**



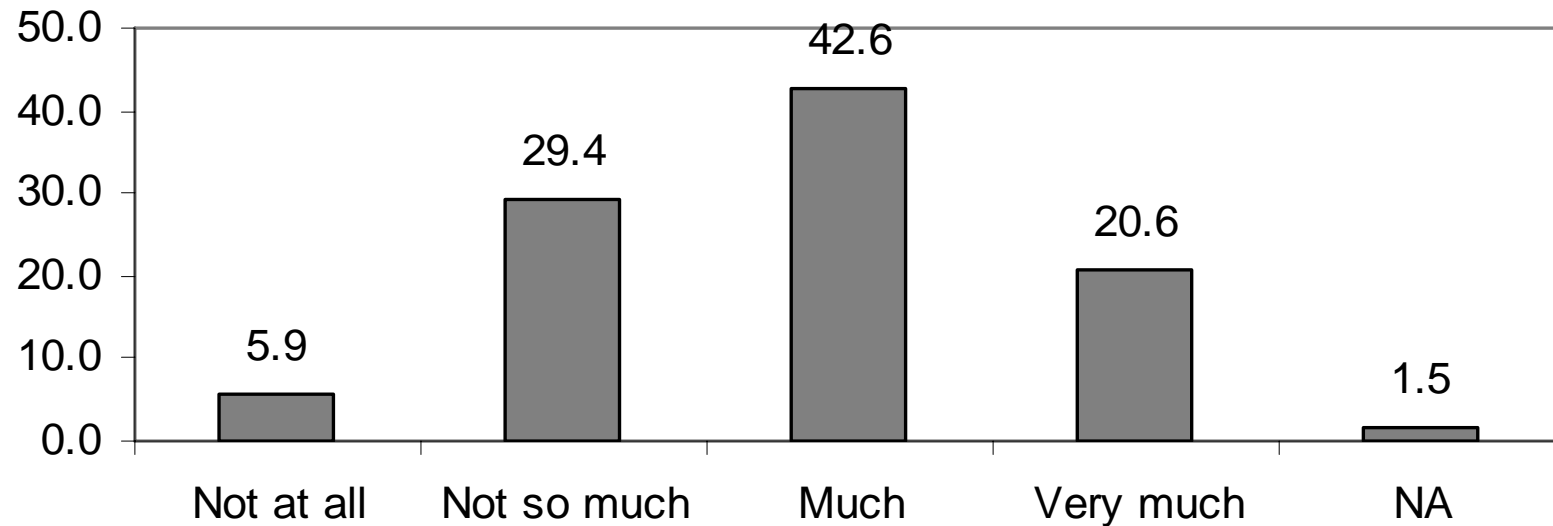
**During the last years have you received advice,
consultancy from specialized person about
environmental friendly agricultural practices?**



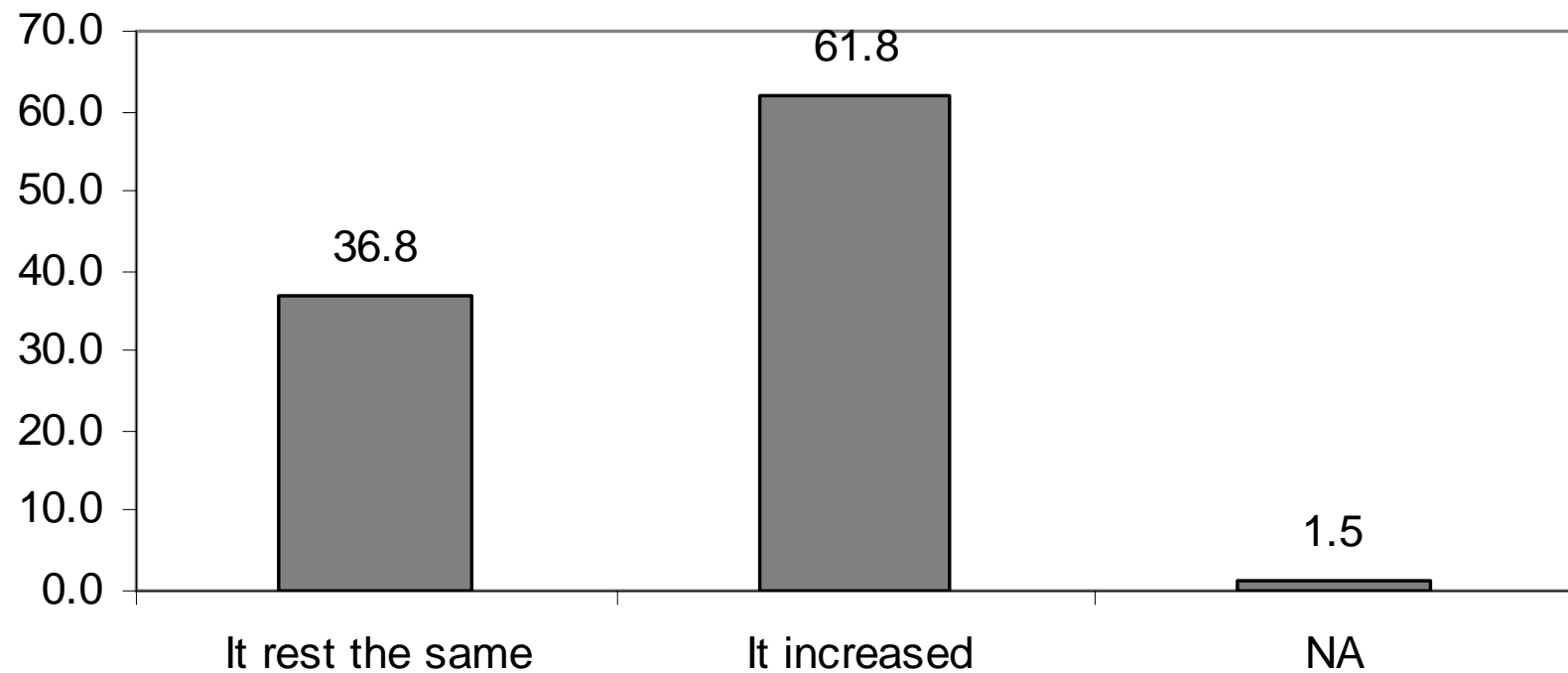
**To what extent do you consider useful the
information transmitted by these actions
(courses, experimental lots, brochures, reviews,
consultancy)?**



To what extent do you use the information transmitted by these actions (courses, experimental lots, brochures, reviews, consultancy) in you agricultural activity?



How do you think that these activities have influenced you agricultural activities?



Questionnaire: addressed to individual households (results)
JANUARY 2005

AGRICULTURAL PRACTICES

v1. In your opinion, which type of agriculture is specific to your household?

| | |
|--|-------|
| 1. traditional, as the parents did | 39.1% |
| 2. modern, with modern means | 18.4% |
| 3. mixed | 33.3% |
| 4. Our household does not practice the agriculture | 4.7% |
| 99. DK / NA | 4.5% |

v2. Which type of agriculture do you think that is the best:

| | |
|------------------------------------|-------|
| 1. traditional, as the parents did | 14.1% |
| 2. modern, with modern means | 61.3% |
| 3. mixed | 19.2% |
| 99. DK/NA | 5.3% |

In which of the following activities your household is involved [was performed in the last 12 months], through the effective work of the household's members:

| | NO | Yes, only for own consumption | Yes, for selling too | DK | NA | Which surface | |
|---|-------|-------------------------------|----------------------|------|------|---------------|-----------|
| | | | | | | Mean (ha) | Std. dev. |
| v3. cultivating the soil (cereals, corn etc) | 65.0% | 23.9% | 10.0% | | 1.0% | 1.5 | 8.5 |
| v4. vegetable growing | 20.9% | 75.1% | 2.0% | 0.2% | 1.8% | 0.9 | 8.9 |
| v5. technical/industrial crop (sunflower, cotton, tobacco, soy etc.) | 87.3% | 5.1% | 4.7% | 0.4% | 2.5% | 0.7 | 6.7 |
| v6. Fruit growing | 85.9% | 10.4% | | 0.2% | 3.5% | 0.0 | 0.1 |
| v7. vineyard | 31.5% | 66.3% | 0.2% | 0.2% | 1.8% | 0.7 | 7.7 |

v8. Which of the following are present in your household: [MULTIPLE ANSWER]:

| | | | |
|-----------------------------|-------|----------------------|------|
| 1. tractor | 6.5% | 6. camion | 0.4% |
| 2. sowing machine | 2.0% | 7. trail | 5.3% |
| 3. electric milking machine | 0.0% | 8. combine harvester | 0.6% |
| 4. greenhouse | 2.2% | 9. boat | 0.2% |
| 5. cart | 35.6% | 10. others | 1.0% |

96. None of these 56.6% 99. NA 42.3%

[Only for those who have greenhouse]

SERA. Does your greenhouse have basin for collecting the residual water?

1. Yes 0.0% 2. No 1.8% 99. DK 0.2% 97. Nap 98.0%

How much land do you have (suitable for agriculture):

v9. owned and used by the household: mean: 1.61 ha, St. dev: 6.79

v10. lease to agricultural associations (and worked by the association): mean 2.49 ha, St. dev 7.92

| Livestock in the household? | Number | | 998. DK | 0 – none | Number | |
|-----------------------------|--------|----------|----------------|----------|--------|----------|
| | Mean | St. Dev. | 999. NA | | Mean | St. Dev. |
| SEP1. Cows. | 0.37 | 0.81 | SEP3. Sheep | | 2.45 | 13.24 |
| SEP2. Pigs | 1.32 | 2.69 | SEP4. Poultry | | 18.42 | 19.57 |
| SEP5. Horses | 0.43 | 0.79 | SEP6. beehives | | 0.42 | 5.36 |

AUTGL. In every society some people are considering themselves rich, while others are considering themselves poor. If you would to give you a mark, from 1 to 10, like in school, where 1 means very poor and 10 very rich, what mark it would be?

| School, where 1 means very poor and 10 very rich, what mark it would get. | | | | | | | | | | |
|---|-------|-------|-------|-------|------|------|------|------|-------------|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 98. DK |
| 11.7% | 14.7% | 18.4% | 15.7% | 21.9% | 8.8% | 6.1% | 2.2% | 0.0% | 0.0% | 0.4% |
| <i>poor</i> | | | | | | | | | <i>rich</i> | |
| Mean: 4.22 St. Dev. 6.28 | | | | | | | | | | |

| <u>In the following years, you intend:</u> | Yes | No | I am not decided | NA |
|---|-------|-------|------------------|------|
| v11. to buy agricultural land | 82.4% | 14.7% | 2.9% | - |
| v12. to buy livestock | 74.2% | 23.5% | 2.2% | - |
| v13. to borrow money for agricultural activities | 93.3% | 5.5% | 1.2% | - |
| v14. to stop agricultural activity | 93.7% | 2.9% | 2.5% | 1.0% |
| v15. to set up an agricultural company | 96.1% | 2.5% | 1.2% | 0.2% |
| v16. to set up a non-agricultural company | 96.7% | 2.0% | 1.2% | - |

ENVIRONMENTAL FRIENDLY AGRICULTURAL PRACTICES

[Just for those who cultivate the land. For the others go to Sources of information]

If you are thinking to the way in which you used to practice the agriculture in 2000, which of the following did you use?

| | Yes | No | DK | Nap |
|---|-------|-------|------|-------|
| AGRO1. Did you practice the crop rotation periodically changing the cereals with vegetables (beans, soy, pease) or with technical crop on the same plot of land | 35.8% | 49.1% | 0.4% | 14.7% |
| AGRO2. Did you use chemical fertilizers asking to a specialist about the quantity of the fertilizers | 17.6% | 67.9% | 1.0% | 13.5% |
| AGRO3. Did you use organic fertilizers (compost) | 39.3% | 46.6% | 0.8% | 13.3% |
| AGRO4. Did you use organic materials against crop diseases | 10.5% | 74.4% | 1.6% | 13.5% |
| AGRO5. Did you use pesticides against crop diseases asking to a specialist about the quantity and the quality of the pesticides | 17.2% | 68.3% | 1.2% | 13.3% |
| AGRO6. Did you use selected seeds | 36.6% | 49.2% | 0.8% | 13.3% |
| AGRO7. Did you use soil testing | 3.3% | 82.0% | 1.4% | 13.3% |

If you are thinking to the way in which you used to practice the agriculture in 2004, which of the following did you use?

| | Yes | No | If yes, which surface (ha)? | | DK | NAp |
|---|-------|-------|-----------------------------|----------|------|-------|
| | | | Mean | St. Dev. | | |
| AGRO8. Did you practice the crop rotation periodically changing the cereals with vegetables (beans, soy, pease) or with technical crop on the same plot of land | 34.8% | 51.3% | 0.89 | 6.06 | | 13.9% |
| AGRO9. Did you use chemical fertilizers asking to a specialist about the quantity of the fertilizers | 13.7% | 72.8% | 0.53 | 4.10 | | 13.5% |
| AGRO10. Did you use organic fertilizers (compost) | 37.4% | 48.9% | 0.36 | 1.69 | 0.2% | 13.5% |
| AGRO11. Did you use organic materials against crop diseases | 8.4% | 77.9% | 0.23 | 1.53 | 0.2% | 13.5% |
| AGRO12. Did you use pesticides against crop diseases asking to a specialist about the quantity and the quality of the pesticides | 17.4% | 68.9% | 0.61 | 4.34 | 0.2% | 13.5% |
| AGRO13. Did you use selected seeds | 36.6% | 49.7% | 0,97 | 4.52 | 0.2% | 13.5% |
| AGRO14. Did you use soil testing | 3.5% | 82.8% | 0,39 | 5.62 | 0.2% | 13.5% |
| AGRO15. Did you use natural windbreaks | 3.9% | 82.8% | 0.03 | 0.24 | 0.2% | 13.5% |

[If the answer to AGRO12 is YES, otherwise got o AGRO18]

AGRO16. When you are using pesticides...

- | | |
|---|-------|
| 1. do you use to buy yourself and crop dusting with your own machines | 8.2% |
| 2. do you ask to authorized firms to crop dusting your land | 9.2% |
| 97. Nap | 82.6% |

AGRO17. From where do you usually buy pesticides?

- | | | | |
|--------------------------|-------|---------------|------|
| 1. from authorized firms | 15.7% | 2. occasional | 1.1% |
| 3. from the market | 0.0% | 99.NA/DN | 0.6% |
| 82.6% | | 97. Nap | |

AGRO18. From where do you buy the seeds for the agricultural activities?

| | |
|--|---------------|
| 1. from authorized firms | 30.3% |
| 2. from others producers (agricultural associations, individual producers) | 12.1% |
| 3. from own production | 19.0% |
| 4. other sources. | 0.8% |
| 99. NA/DN 0.5% | 97. Nap 33.7% |

SOURCES OF INFORMATION

S1. Where do you find information about the agricultural activities? (MULTIPLE ANSWER)

| | |
|---|-------|
| 1. agricultural engineer | 27.2% |
| 2. TV, radio | 40.5% |
| 3. <i>Ecological Agriculture</i> review | 1.6% |
| 4. newspapers, magazine | 4.1% |
| 5. friends, relatives, neighbors | 41.3% |
| 6. Townhall | 13.7% |
| 7. agricultural associations | 24.9% |
| 8. firms which have agricultural activities | 4.9% |
| 9. agricultural consultants | 4.5% |
| 10. others Wich: | 2.7% |
| 11. my own experience | 1.8% |
| 12. people I know | 0.2% |
| 13. books | 0.2% |
| 14. from old people | 0.4% |
| 97. I don't inform myself | 15.7% |
| 99. DK/NA | 2.7% |

S2. From the sources mentioned above, which one is the most important source of information for you?

| | |
|--|-------|
| agricultural engineer | 16.0% |
| TV, radio | 21.7% |
| <i>Ecological Agriculture</i> review | 0.4% |
| newspapers, magazines | 0.6% |
| friends, relatives, neighbors | 16.6% |
| Townhall | 5.5% |
| agricultural associations | 14.1% |
| firms which have agricultural activities | 1.4% |
| agricultural consultants | 2.0% |
| others | 2.9% |
| Nap | 3.5% |
| DK | 5.7% |

S3. You can learn the best way to practice agriculture form:

| | |
|----------------------------------|-------|
| 1. books, magazines | 3.1% |
| 2. parents | 23.1% |
| 3. agricultural engineer | 44.4% |
| 4. friends, relatives, neighbors | 7.4% |
| 5. TV, radio | 8.6% |
| 6. others | 4.5% |
| 98. DK / 99.NA | 9.0% |

ENVIRONMENT PROTECTION

To what extent do you feel concerned about...

| | 4.Very much | 3.Much | 2.Not so much | 1.Not at all | NA/DK |
|---|-------------|--------|---------------|--------------|-------|
| ECO1. Water's quality in your village. | 48.1% | 41.1% | 7.4% | 2.7% | 0.8% |
| ECO2. Air's quality in your village | 47.4% | 42.1% | 7% | 2.5% | 1% |

ECO3. How do you appreciate the water's quality in your village?

| 4. very good | 3. good | 2. bad | 1. Very bad | DK | NA |
|--------------|---------|--------|-------------|----|------|
| 26.2% | 59.3% | 11.5% | 2.9% | 0% | 0.2% |

Do you have in your household?

| | | 1. Yes | 0. No | 99. NA |
|--------------|---------------------------------|--------|-------|--------|
| ECO4. | well | 86.7% | 13.1% | 0.2% |
| ECO5. | running water | 21.7% | 77.9% | 0.4% |
| ECO6. | bathroom | 7.2% | 92.4% | 0.4% |
| ECO7. | WC in house | 5.3% | 94.3% | 0.4% |
| ECO8. | Latrine (WC outside your house) | 99.4% | 0.6% | 0% |

[If the answer to ECO8 is Yes, if no go to **ECO13**...]

ECO9. How deep is your latrine? _____ m Mean 5.840, Std. Dev.: 8.8096

ECO10. How is it built the hole of your latrine?

| | |
|---|------|
| 1. dig in the ground | 93% |
| 2. dig with the lateral wall made by concrete | 4.5% |
| 3. septic tank | 0.6% |
| 4. other. How? _____ | 0.6% |
| 97 Nap | 0.6% |
| 99. DK/NA | 0.6% |

ECO11. Which is the most important think taking into account when you are choosing the place for the latrine?

| | |
|-----------------------------|-------|
| 1. to be far from the house | 35% |
| 2. to be far from barn | 0.8% |
| 3. to be on the flat ground | 0% |
| 4. to be far from well | 56.6% |
| 5. to be in the backyard | 6.3% |
| 6. other. How? _____ | 0.2% |
| 99. DK/NA | 1% |

ECO12. How far from the latrine is located the nearest well? Mean: 34.97 m, Std.Dev.:31.1

ECO13. How deep is the well used by your household? Mean: 16.3 m, Std.Dev.: 11.8

Do you have in your household?

| | | 1 Yes | 0. No | 99. NA |
|--------|---|-------|-------|--------|
| ECO14. | A platform for organic garbage and manure | 24.1% | 75.9% | 0% |
| ECO15. | A rubbish cart | 19% | 81% | 0% |

ECO16. To what extent do you consider that the platform for organic garbage and manure is useful?

| | | | | | |
|--------------|---------|----------------|---------------|--------|--------|
| 4. Very much | 3. Much | 2. Not so much | 1. Not at all | 98. DN | 99. NA |
| 29.7% | 44.6% | 13.9% | 4.7 | 2.7% | 4.5% |

ECO17. Do you afford to pay for building a garbage and manure platform [if you would not have one]?

| | | |
|--------|-------|-----------|
| 1. Yes | 2. No | 99. DK/NA |
| 21.7% | 70.8% | 7.6% |

[If the answer to ECO17 is Yes]

ECO18. Which amount of money do you afford to pay for building the platform? _____ lei Mean: 960,806 lei, Std. Dev.: 1,307,082

[For those who have individual platform, if NO go to ECO21]

ECO19. When your platform was built? _____ year

| | | | | | | | | |
|-------------|------|------|------|------|-------|------|-------|-------|
| Before 2000 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | DK/NA | NAp |
| 0.6% | 0.2% | 1 % | 0.2% | 2.7% | 15.3% | 2.2% | 1.6% | 75.9% |

ECO20. Who built your platform for garbage and manure?

| | |
|---|-------|
| 1. Household's members without external help | 2.2% |
| 2. Household's members with local authorities and World Bank's help | 2.5% |
| 3. Local authorities with World Bank's help | 18.6% |
| 97. NAp | 75.9% |
| 99. DK/NA | 0.8% |

ECO21. When you throw the garbage:

| | |
|--|-------|
| 1. Do you use to separate the organic and non-organic garbage | 62.2% |
| 2. Do you throw the all garbage together, not depending on the content | 33.7% |
| 3. We do not use to throw the garbage | 3.9% |
| 99. DK /NA | 0.2% |

ECO22. Where do you use to throw the organic garbage (food remains):

| | |
|--|-------|
| 1. to the individual platform | 19% |
| 2. to the rubbish cart | 2.5% |
| 3. in a hole made in the yard or in the garden | 26% |
| 4. somewhere in the yard or in the garden | 24.1% |
| 5. other. Where? _____ | 3.9% |
| 6. We do not use to throw the garbage | 15.1% |
| 7. to the village platform | 2.0% |
| 10. (plastic) bags, boxes | 6.3% |
| 99. DK /NA | 1% |

ECO23. Where do you use to throw the non-organic garbage (glass, iron, plastic):

| | |
|--|-------|
| 1. to the individual platform | 14.5% |
| 2. to the rubbish cart | 5.7% |
| 3. in a hole made in the yard or in the garden | 25.6% |
| 4. somewhere in the yard or in the garden | 19.4% |
| 5. We do not use to throw the garbage | 11.7% |
| 6. other. Where? _____ | 6.1% |
| 7. to the village platform | 3.1% |
| 10. in ?, plastic bags, boxes | 9.2% |
| 99. DK/ NA | 4.7% |

[For those who have livestock in the household, others go to ECO26]

ECO24. Where do you deposit the manure?

| | |
|--|-------|
| 1. to the individual platform | 22.5% |
| 2. to the rubbish cart | 0% |
| 3. in a hole made in the yard or in the garden | 15.3% |
| 4. somewhere in the yard or in the garden | 17.6% |
| 5. other. Where? _____ | 2.2% |
| 6. We do not use to throw the garbage | 9.8% |
| 97.NAp | 31.3% |
| 99. DK / NA | 1.2% |

ECO25. How far from the nearest well do you deposit the manure? Mean: 34.8 , Std.Dev.: 36.1

ECO26. What are you usually doing when you have too much garbage in your yard?

| | |
|---|-------|
| 1. I am transporting them to the village's garbage platform | 85.5% |
| 2. I am transporting them on the field | 3.3% |
| 3. I am depositing them on the road, in front of the yard | 0.2% |
| 4. other. What else? _____ | 6.3% |
| 5. We do not use to throw the garbage | 3.3% |
| 99. DK/NA | 1.4% |

ECO27. How often do you use to transport the organic garbage (food remains and manure) to the village's garbage platform? Mean: 2 months, Std. Dev.: 3.4

ECO28. How often do you use to transport the non-organic garbage (glass, iron, plastic) to the village's garbage platform? Mean: 2.4 months, Std. Dev.: 3.5

ECO29. To what extent do you believe that the establishment of a communal service for garbage collection would be useful for your commune?

| | | | | | |
|--------------|---------|----------------|---------------|--------|--------|
| 4. Very much | 3. Much | 2. Not so much | 1. Not at all | 98. DK | 99. NA |
| 29.9% | 29% | 16.8% | 20.2% | 2.7% | 1.4% |

IMPACT

PBM1. Did you hear about a World Bank project in the area which aims to improve the agricultural activity and to protect the environment?

| | | |
|--------|-------|-----------|
| 1. Yes | 2. No | 99. DN/NA |
| 62.4% | 37.2% | 0.4% |

[If the answer is NO go to FACTUAL DATA]

If the answer to PBM1 is YES:

PBM2. Did you hear which the main goal of the project is?

| | | | |
|--------|-------|------------|--------|
| 1. Yes | 2. No | 99. DN/ NA | 97 Nap |
| 40.3% | 21.5% | 2.7% | 35.6% |

If the answer is NO go to FACTUAL DATA]

If the answer to PBM2 is YES:

In your opinion, how the project has influenced the following:

| | 1. They improved it | 2. They did not change it | 3. They worse it | 98. DK | 99. NA | 97. NAp |
|------------------------------------|---------------------|---------------------------|------------------|--------|--------|---------|
| IMP1. Your life. | 24.1% | 16.2% | 0.6% | 0.4% | 0% | 58.7% |
| IMP2. Village's people life | 28.6% | 9.6% | 0.4% | 2.7% | 0% | 58.7% |

To what extent do you consider that the following actors have helped to the project's implementation?

| | 1. Very much | 2. Much | 3. Not so much | 4. Not at all | 98. DK | 99. NA | 97. NAp |
|---|--------------|---------|----------------|---------------|--------|--------|---------|
| IMP3. Local authorities (townhall) | 18.4% | 18.2% | 2.9% | 0.6% | 1% | 0% | 58.9% |
| IMP4. Village's people | 4.9% | 12.7% | 12.3% | 8.4% | 2.2% | 0% | 59.5% |

IMP5. In your opinion, who was the main actor in the project's implementation?

| | |
|----------------------------|-------|
| 1. The townhall | 23.7% |
| 2. The World Bank | 14.1% |
| 3. The County Council | 0.8% |
| 4. The village's people | 0.4% |
| 5. Others. Who else? _____ | 0% |
| 97. NAp | 59.1% |
| 99. DK/NA | 1.8% |

IMP6. In your opinion, who else should be involved in the project's implementation?

| | |
|--------------------------------------|-------|
| The townhall | 45.5% |
| Citizens/village people | 28.5% |
| Administration Council/Local Council | 3.3% |
| The Mayor | 4.1% |
| County Council | 8.1% |
| World Bank | 4.1% |
| Others | 19.4% |

IMP7. In your opinion, who was the main beneficiary of the project?

| | |
|----------------------------|-------|
| Citizens/village people | 70.1% |
| The townhall/Local Council | 11% |
| The village | 7.9% |
| The entire comune | 5.5% |
| The livestock's owners | 2.4% |
| Poor/ordinary people | 4.3% |
| Others | 8.6% |

PBM3 In which of the following situations have you been during the last years?

| | 1. Yes | 0. No | 98. I did not know about them | 99. NA | 97. NAp |
|--|-----------|----------|-------------------------------------|-----------|------------|
| 1. I have participated in courses for farmers about environmental friendly agricultural practices | 5.9% | 33.9% | 1% | 0% | 59.1% |
| 2. I have visited experimental lot prepared using environmental friendly agricultural practices | 6.7% | 32.9% | 1.4% | 0.2% | 58.7% |
| 3. I have read in <i>Ecological Agriculture</i> about environmental friendly agricultural practices | 3.3% | 38% | 0% | 0% | 58.7% |
| 4. I have received brochures, books about environmental friendly agricultural practices | 4.5% | 36% | 0.8% | 0% | 58.7% |
| 5. I have received advice, consultancy from specialized person about environmental friendly agricultural practices | 8.6% | 32.3% | 0.4% | 0% | 58.7% |

[If the answer is yes for at least one of the questions PBM3, if no got o FACTUAL DATA]

IMP8. To what extent do you consider useful the information transmitted by these actions (courses, experimental lots, brochures, reviews, consultancy)?

| | | | | | | |
|--------------|---------|----------------|---------------|--------|--------|---------|
| 4. Very much | 3. Much | 2. Not so much | 1. Not at all | 98. DK | 99. NA | 97. NAp |
| 2.9% | 6.7% | 3.9% | 0.2% | 0% | 0.2% | 86.1% |

IMP9. To what extent do you use the information transmitted by these actions (courses, experimental lots, brochures, reviews, consultancy) in you agricultural activity?

| | | | | | | |
|--------------|---------|----------------|---------------|--------|--------|---------|
| 4. Very much | 3. Much | 2. Not so much | 1. Not at all | 98. DK | 99. NA | 97. NAp |
| 2.9% | 5.9% | 4.1% | 0.8% | 0% | 0.2% | 86.1% |

IMP10. How do you think that these activities have influenced you agricultural activities?

| | | | | | |
|----------------|---------------------|-----------------|--------|--------|---------|
| 3 It increased | 2. It rest the same | 1. It decreased | 98. DK | 99. NA | 97. NAp |
| 8.6% | 5.1% | 0% | 0% | 0.2% | 86.1% |

FACTUAL DATA

Does your dwelling have access to ...?

| | | | | |
|-----|-------------|-------|-------|--------|
| | | 1 Yes | 0. No | 99. NA |
| GAZ | Methane gas | 0.2% | 99.8% | 0% |
| ELE | Electricity | 98.6% | 1.4% | 0% |

| Does your household have a ...? | | 1. DA | 0. NU | 99. NA |
|---------------------------------|---------------------------|-------|-------|--------|
| AUTO | car | 17.4% | 82.6% | 0% |
| TEL | telephone | 26.8% | 73.2% | 0% |
| TELEMOB | mobile telephone | 22.9% | 77.1% | 0% |
| FRIG | freezer | 72.6% | 27.4% | 0% |
| MSPAL | washing machine | 38.2% | 61.8% | 0% |
| ASPIR | vacuum cleaner | 15.7% | 84% | 0.2% |
| APRC | cable / parabolic antenna | 51.1% | 48.9% | 0% |
| TVC | color TV | 69.7% | 30.1% | 0.2% |
| TVAN | white - black TV | 34.8% | 65.2% | 0% |
| RADIO | radio | 63.6% | 36.4% | 0% |
| PC | computer | 6.1% | 93.9% | 0% |
| CONT | bank account | 10.4% | 88.8% | 0.8% |

SEX. Sex

1. Male
70.1%

2. Female
29.9%

AGE. Age: 54 years Std.Dev.: 16

EDUC. What is the highest level you have reached in your education?

| | | | |
|---|-------|--|------|
| 1. without school | 5.3% | 8. post-high school education | 1.2% |
| 2. primary (1- 4 grade) | 27% | 9. foreman school | 0.8% |
| 3. secondary (5 - 8 grade) | 24.3% | 10. higher education – lower level (college) | 0.4% |
| 4. complementary school | 1.4% | 11. university degree | 1.4% |
| 5. first part of high school (9 - 10 grade) | 4.9% | 12. postgraduate studies | 0% |
| 6. professional school | 21.7% | 99. NA | 0.2% |
| 7. high school (9 – 12 grade) | 11.2% | | |

OCUP. Which is you present status: [MULTIPLE ANSWER]

| | |
|--|-------|
| 1. pupil / student | 0.4% |
| 2. housekeeper | 14.9% |
| 3. registered unemployed | 2.2% |
| 4. unregistered unemployed (he / she does not receive unemployment benefits and is searching for employment) | 5.7% |
| 5. retired | 45.8% |
| 6. unable to work | 2.5% |
| 7. works with legal contract or authorization | 14.5% |
| 8. self-employed (including the agricultural farmers) | 58.3% |
| 9. employer | 1.4% |
| 10. daily worker or employed without contract | 15.3% |
| 11. satisfying military service | 0% |
| 99. NA | 0% |

NRMEM. How many people are living in your household.?:_ Mean: 3.16, Std.Dev.: 1.641**MEM1.** Under 16 years old Mean: 3.1**MEM2.** over 16 years old Mean: 2.63

VENDEC. Taking in account all the incomes sources of your household, please tell me which is the total amount of money earned by all members of your household last month (December)?

Mean: 4.3millions lei

VAGMAI. Can you tell me please, what amount of money do you earn last month from selling agricultural products?

Mean: 9.8 millions lei

VENT04. Last year (2004), the total income of your households was:

Mean: 43.9, Std.Dev.: 52.7 millions lei.

FIELDWORK OPERATOR will fill the answers for the questions below.**EVAL. In your opinion the subject was ...**

| | |
|-------------------------------------|-------|
| 99. NA | 2.5% |
| 1. Interested by all the questions | 53.2% |
| 2. Interested by all some questions | 32.9% |
| 3. Not at all interested | 11.5% |