

Figure 5. Factors causing the failure of integrated bucket fish farming

When people's interest in implementing this method at home was measured, the results showed an almost equal number of interested and uninterested responses (48% and 52%, respectively). After that, it is followed by questions to investigate the reasons for people's disinterest. Of the 352 people who said they were not interested, the majority of them gave the reason that they had limited time (49.4%). The second most popular answer is the limited knowledge of the procedures for carrying out this method (27.8%). Several respondents said that the feeling of being lazy and uncomfortable with the smell caused by this method was the reason for their disinterest. Therefore, we also want to know whether there are any benefits that can be felt by the respondents through the integrated fish farming activities. 315 respondents answered that the advantage of this method is that this activity can be a solution for providing food in limited land. 158 respondents felt that this method could be one of the positive activities that could be done during the pandemic and 120 others felt that integrated fish farming could help meet protein needs in the family. Interestingly, four respondents felt that there was no benefit from this method activities.

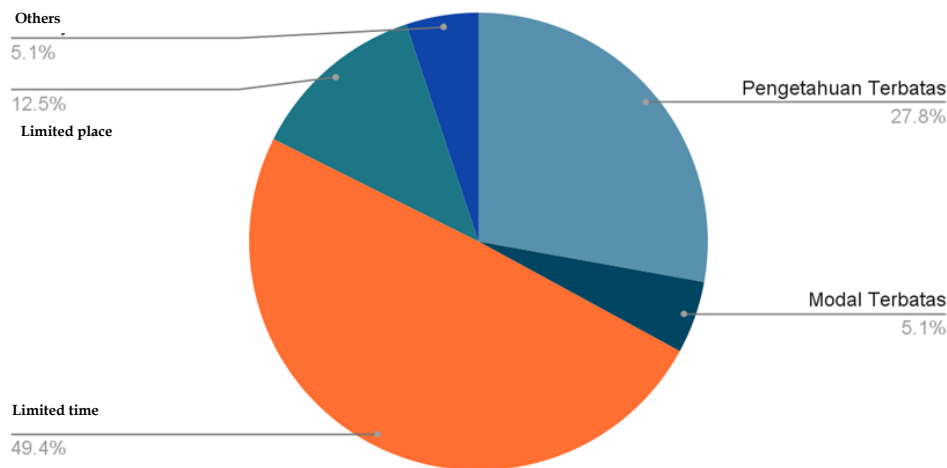


Figure 6. The reason for the public's disinterest in implementing integrated bucket fish farming

- Providing family's protein need
- Profitable business
- Food solutions in limited property
- Positive activity during pandemic
- No benefit

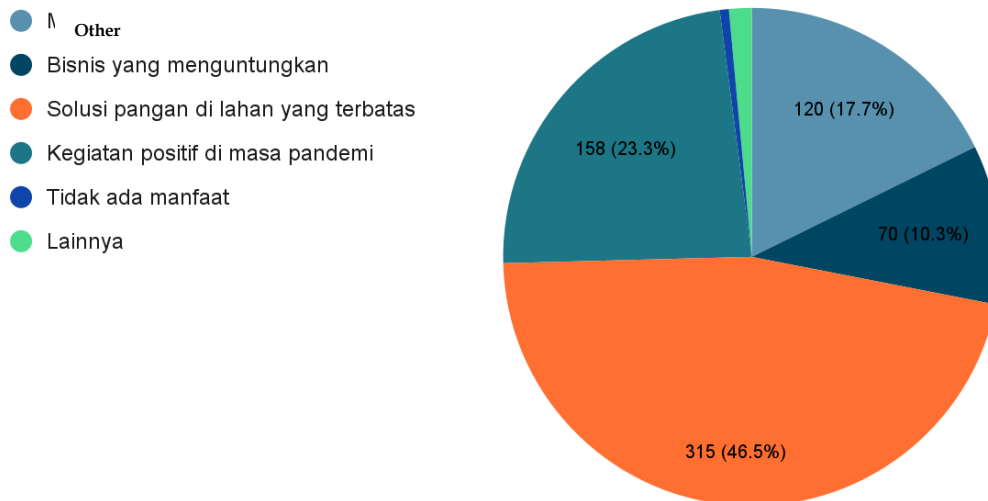


Figure 7. The benefits of integrated bucket fish farming in the community's view

The measurement of interest has the aim of exploring the public's interest in integrated fish farming in a bucket activities. There are seven questions in this assessment with the result that the majority of the community (49.2%) strongly agree that this method activity is very useful to carry out. Followed by another 39.7% who agreed with the statement and followed by a small percentage (10.2%) who gave a neutral answer, 0.6% disagreed and 0.3% strongly disagreed with the statement. Reinforced by the finding that 36.5% agree and even 47.1% strongly agree that this method can help meet protein needs in the family. The majority of respondents also agreed that this method is one of the positive activities that can be done during this pandemic (64.8%).

Only 1.3% and 2.5% of the total respondents strongly disagree and agree, respectively, that this method can be a very profitable business. 33.2% agree and 53.5% strongly agree that this method is a solution for providing food in limited properties. There is a finding that 36% of respondents agree that integrated bucket fish farming is quite easy to implement. 25.8% even of them strongly agree with this and 32.8% give a neutral answer. Despite these findings and after participating in this research, there are still many people who are hesitant to start implementing this method activities. This is evidenced by the finding that the majority of respondents gave neutral answers to statements regarding their interest in implementing this method at home (32%) in fact, 17.3% stated that they were not interested and 3.7% were not very interested in implementing it.

Conclusion

Data collection for the questionnaire was successful with a total of 677 valid responses. To summarize the findings, the authors have listed the key findings from the questionnaire as follows:

- 1) Public insight regarding fishery activities, especially the cultivation of integrated bucket fish farming method, is still minimal. Through this research, it can be concluded that more people do not know this method.
- 2) The number of applications of integrated bucket fish farming in the community is still relatively low.
- 3) 32.7 percent of the people who have applied integrated bucket fish farming admitted that the activity did not run smoothly. The majority is due to limited knowledge about this method.
- 4) More than fifty percent of respondents are not interested in implementing this method at home. The most common reason was due to time constraints.
- 5) Most people strongly agree that integrated bucket fish farming is one of the positive activities that can be tried during this pandemic.

After this research was completed, the authors identified great potential for future research. The author would like to propose some inputs so that the next service activity can be carried out better. The following suggestions are formulated from this research:

- 1) Pilot testing should be carried out before distributing the questionnaire to avoid ambiguous questions and eliminate potential problems. This stage includes evaluating question words, detecting unclear questions, and reviewing the methods used by researchers to collect data. This is recommended because there are many responses that must be eliminated because they are not valid.
- 2) Counseling and socialization regarding the benefits, procedures for making and maintaining integrated bucket fish farming method must be intensified. Together with the Ministry of Maritime Affairs and Fisheries as a channel of capital in the form of a package of assistance for facilities and infrastructure for cultivation activities and the Center for Freshwater Aquaculture (BPBAT), the community can work together to promote sustainable aquaculture in the wider community to improve com-

munity welfare and meet household protein needs.

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References

- [1] Prayogo, D., and Sukim, S. "Determinan Daya Beli Masyarakat Indonesia Selama Pandemi Covid-19 Tahun 2020" *Seminar Nasional Official Statistics* 1, 631-640. 2021
- [2] Firmansyah E and Isnaeni S, "Budidaya Ikan Dalam Ember: Solusi Alternatif Pemenuhan Kebutuhan Pangan Keluarga di Masa Pandemi Covid-19", *Community Empowerment* 6 (2): 238-245, 2021
- [3] Hendriyana, A. "Ini Tips Sukses Budikdamber di Rumah" (<https://www.unpad.ac.id/2022/01/ini-tips-sukses-budikdamber-di-rumah/>), 2022
- [4] Kementerian Kelautan dan Perikanan. "Budidaya Ikan Dalam Ember, Solusi Kebutuhan Pangan Rumah Tangga" (<https://kkp.go.id/setjen/PUG/artikel/30687-budidaya-ikan-dalam-ember-solusi-kebutuhan-pangan-rumah-tangga>), 2021
- [5] Susetya IE, and Harahap, ZA "Aplikasi Budikdamber (Budidaya Ikan dalam Ember) untuk Keterbatasan Lahan Budidaya di Kota Medan" *Abdimas Talenta* 3 (2): 416-420, 2018
- [6] Suryana, AAH, Dewanti, LP, Andhikawati, A. "Penyuluhan Budidaya Ikan dalam Ember (Budikdamber) di Desa Sukapura Kecamatan Dayeuhkolot Kabupaten Bandung" *Farmers: Journal of Community Services* 2(1):47-51. 2021
- [7] Andriani Y, Zahidah, Rosidah, Iskandar, "Pengaruh perbedaan tekanan dalam fine bubbles (FBs) terhadap pertumbuhan, konversi pakan ikan patin siam, *Pangasianodon hypophthalmus* (Sauvage, 1878) dan kualitas air pada sistem akuaponik" *Jurnal Iktiologi Indonesia* 21(3): 277-290, 2021
- [8] Kordi M., G. "Budidaya Ikan Lele di Kolam Terpal" Yogyakarta: Lily Publisher, 2010
- [9] Zidni I, Herawati T, and Liviawaty E. Pengaruh Padat Tebar Terhadap Pertumbuhan Benih Lele Sangkuriang (*Clarias gariepinus*) dalam Sistem Akuaponik *Jurnal Perikanan dan Kelautan.*, 4(4), 315-324. 2013
- [10] Kementerian Kelautan dan Perikanan. "KKP: Sistem Budikdamber Sarana Pemberdayaan dan Ketahanan Gizi" Direktorat Jenderal Perikanan Budidaya (<https://kkp.go.id/djpb/artikel/27536-kkp-sistem-budikdamber-sarana-pemberdayaan-dan-ketahanan-gizi-masyarakat>), 2021

