

1 **Analysis and Strategy of Good Agriculture**
2 **Practices (GAP) Cultivation of Rawit Capsicum**
3 **(*Capsicum frutescens* L.) in Tidore Eastern**

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7 **ABSTRACT**
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Farmers in Tidore City of the Islands grow a lot of capsicum frutescens as a horticultural product. Initiatives to increase production and close the production gap between the regions must go hand in hand with the government's efforts to make Tidore Island City a rawit pepper supplier in Northern Maluku. The cultivation technique is one of the reasons for the variance in raw pepper production. The study's goal is to investigate the level of application of Good Agriculture Practices (GAP) in pepper growing in the Eastern Tidore district and the techniques that can be used to affect GAP implementation. The study was conducted in Tidore City Eastern District, Northern Maluku Province. Purposive sampling is a sample-taking approach in which respondents were chosen at random from among 100 farmers, with the criterion of farmers who had been attempting to rawit pepper for more than 5 years. Land location (X1), soil preparation and planting media (X2), seed quality (X3), planting and maintenance (X4), fertilizer (X5), plant protection (X6), pesticides (X7), harvest (X8), post-harvesting (X9), and waste and rubbish handling (X10) are the ten assessment parameters. Descriptive analysis, Likert scale, and SWOT analysis were used to analyze the data. According to the study findings, farmers' grasp of GAP is rather excellent, and the rate of GAP implementation has an average score of 2.70 in the reasonably good category. The S-O strategy, which, with soil fertility, has both the potential to expand the development of horticultural crops as well as the knowledge and skills of farmers sufficiently skilled in chili cultivation techniques, can increase the production of chili rawit in the Eastern Tidore district.

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10 *Keywords: SWOT Analysis, Farmers, Good Agriculture Practices*
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12 **1. INTRODUCTION (ARIAL, BOLD, 11 FONT, LEFT ALIGNED, CAPS)**
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14 Capsicum annum is one of the most economically valuable horticultural crops in the world.
15 The increase in population will be followed by the demand for pepper supplies. Given that
16 rawit is needed by every family, restaurant, and even industry as a food mixer and food
17 spice, Implementation of the principles of Good Agriculture Practice (GAP) as sustainable
18 agriculture by farmers will be different (Dewi et al., 2016). It depends on each farmer's
19 perception of the positive or negative benefits of his business.

20 Measures to increase production while bridging the interregional gap must come after the
21 government's efforts to make Tidore Island City a supplier of rawit pepper in the Northern
22 Maluku. The region of Oba, North Oba, East Tidore, and North Tidore is the largest pumpkin
23 production hub in the island city of Tidore (BPS, 2022). One of the causes of variation in the
24 production of rawit peppers is the cultivation techniques applied by farmers. As a center of
25 peach production, farmers in this region have different cultivation capabilities among
26 themselves. Crop capabilities are also related to farmers' patterns of communication, both
27 internal and external, including the ability to access information. The obstacles faced by
28 farmers vary, including the price of production inputs such as seeds, fertilizers, pesticides,
29 and other farming feeding equipment that are quite expensive. Information about the good
30 cultivation techniques of the farmer's officers is also limited.

31 According to the Ministry of Agriculture of the City of Tidore Islands in 2022, East Tidore
32 district has 100 farmers of rawit peppers spread across seven villages, namely Kalaodi,
33 Cobodoe, Dowora, Doyado, Tosa, Mafututu, and Jiko Cobo. The harvest area in 2017 was
34 11 ha with a total production of 7 tons; in 2018, the harvesting area was 3 ha, where the
35 production amounted to 1.6 tons; and in 2019, it increased to 10 ha with a production of 24.3
36 tons (BPS, 2022). When compared to the potential production of rawit pepper, the yield of
37 East Tidore farmers is still low. The problem is the capacity to cultivate land, planting on land
38 with an inclination of >8%–30% as an island territory, thus limiting farmers ability to do
39 cultivation (Umasugi et al., 2022). Therefore, the principle of conservation must be applied to
40 the land.

41 The concept of agriculture suitable for farmers has been published through the Order of the
42 Minister of Agriculture No. 48 of 2009 on the Guidelines for Good Agriculture Practices
43 (GAP) of food crops. (Permentan, 2009). Innovation of GAP by farmers in Kulon Progo of
44 83% has a positive impact on the production of soybean (Purnamasari et al., 2017). The rate
45 of application of GAP to experienced farmer professions, higher education, large areas, and
46 active following socialization of GAP by the pioneers due to GAP implementation reached
47 67-95% (Sitorus et al., 2020). The GAP approach to pumpkin cultivation as one of the
48 solutions to sustainable agriculture needs to be extensively studied in order to develop the
49 industry, taking into account the various problems faced by pumpkin farmers (Dewi et al.,
50 2016). Based on this description, research on the application of Good Agriculture Practices
51 (GAP) for *Capsicum annum* cultivation to farmers in Tidore Eastern City, Tidore district,
52 should be carried out. The objective of this study is to establish the level of application of
53 Good Agriculture Practices (GAP) to farmers in the East Tidore district and determine the
54 strategies that can be taken to influence the application of GAP among farmers.

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56 **2. MATERIAL AND METHODS**

57 The research was carried out in the Tidore Eastern District of Tidore City, Northern Maluku
58 Province. The study was conducted in January–April 2023. Respondents were randomly
59 selected from among 100 farmers, with the criteria of farmers who have been trying to rawit
60 pepper for more than 5 years. Purposive sampling is a sample collection method that is used
61 by a researchers if they have a particular consideration in the sample. The sample was
62 determined to be 30% of the total population of rawit pepper farmers (Dewi et al., 2016;
63 Wakhid&Suciati, 2020).

64 To analyze the extent of GAP application to the cultivation of rawit peppers by farmers in the
65 East Tidore district, the researchers referred to the assessment parameters based on the
66 Regulation of the Minister of Agriculture No. 62 of 2010. The evaluation parameters consist
67 of ten variables, including the location of the farm (X1), soil preparation and planting media
68 (X2), seed quality (X3), planting and maintenance (X4), fertilization (X5), crop protection
69 (X6), pesticides (X7), harvest (X8), post-harvesting (X9), and waste and garbage
70 management (X10). The assessment is made on ten variables; each variable has a sub
71 variable of thirty-nine (Ministerial Regulation No. 62, Year 2010). The sub variables analyzed
72 are descriptively twenty-five of the cultivation activities carried out on open land with a
73 fertilizer of less than 30% (X1.1), land free of poisonous waste (X1.2), meaning that there is
74 no industrial activity or other activity around the site of the plant that uses toxic waste, soil
75 conservation measures (X1.3), or the use of human waste for plant fertilization (X5.1),
76 meaning that fertilization activities do not use human dirt, animal dirt, or urine before use in
77 fertilizing (X5.2), meaning that the fertilizing activity does not use animal dust or should be
78 processed prior to use.

79 Data collection in this study is done by distributing a questionnaire to each respondent. The
80 basics for interpreting the mean value used in this study refer to the interpretation of the
81 score. Thus, the criteria for describing the average value obtained by each sub variable

82 depend on the assessment parameters within the GAP. Each respondent's answer was
 83 analyzed using SPSS 22 software.

84 The model analysis used is descriptive statistical analysis (Ashari et al., 2017). In the
 85 analysis of the Likert scale, there are two forms of questions: the positive question form to
 86 measure the positive scale and the negative question form to measure the negative scale.
 87 Positive questions are scored 5, 4, 3, 2, and 1, while negative questions are scored 1, 2, 3,
 88 4, and 5 (Pranatawijaya et al., 2019). The likert scale is T x Pn (T = total number of
 89 respondents voting and Pn = selection of likert shortage numbers). The applicationlevel
 90 category using the Likert scale is presented in Table 1. SWOT analysis (Benzaghta et al.,
 91 2021) was used to formulate strategies to influence the implementation of Good Agriculture
 92 Practices (GAP) in rawit pepper cultivation by farmers in East Tidore district. This SWOT
 93 analysis is also based on logic that aims to maximize opportunities and analyze
 94 weaknesses. External analysis is carried out by identifying the opportunities and threats to
 95 the cultivation of rawit pepper in East Tidore district. Opportunities (O) as well as threats (T)
 96 are external analyses of the opportunity and threat that can be identified through economic,
 97 social, cultural, demographic, environmental, competitors, government, and technology
 98 factors. This SWOT analysis is based on logic that can maximize the strengths of internal
 99 factors and opportunities emerging from outside, but at the same time can minimize
 100 elements of internal weaknesses and anticipate interference factors or potential external
 101 threats. (Benzaghta et al., 2021). The SWOT matrix is presented in Table 2.
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Table 1. Category GAP application level

Scale Range	Category
1-1,8	Not good
> 1,8-2,6	Poorly
> 2,6-3,4	Good sufficient
> 3,4-4,2	Good
> 4,2-5,0	Very good

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Table 2. SWOT matrix

Eksternal Internal	Strengths	Strengths
Opportunities	S-O Strategies Create a strategy that uses the power to take advantage of opportunities	W-O Strategies Create a strategy that minimizes weakness to take advantage of opportunities
Threats	S-T Strategies Create a strategy that uses power to address threats	W-T Strategies Create a strategy that minimizes weaknesses and avoiding threats

106 **3. RESULTS AND DISCUSSION**

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108 **3.1 GAP Application Analysis Results Based on Likert Scale**

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110 Results of analysis using a Likert scale against 14 (fourteen) sub variables according to the
 111 GAP guidelines presented in Table 3

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Table 3. Results of GAP Variable Likert Scale Analysis

Variable (X)	Scale Range	Number of Scores	Average	Category
X ₁	> 2,6-3,4		3,40	Good sufficient
X ₂	> 2,6-3,4		3,03	Good sufficient
X ₃	> 1,8-2,6		2,47	Poorly
X ₄	> 2,6-3,4		2,67	Good sufficient
X ₅	> 2,6-3,4		2,75	Good sufficient
X ₆	> 2,6-3,4		3,06	Good sufficient
X ₇	> 1,8-2,6		2,42	Poorly
Total Average Score			2,70	Good sufficient

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Info: soil preparation and planting media (X1), seed crop (X2), planting and maintenance (X3), fertilization (X4), plant protection (X5), harvest (X6), and post-harvest (X7).

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Based on the data, Table 3 shows that the variable average score is 2.42–3.40, with a scale range of >1.8–2,6 and >2.6–3.4 in the poor category, which is quite good. This indicates that the farmers of pepper rawit in the preparation of the soil and the medium of cultivation already quite well meet the standards of GAP. Before carrying out the planting activities, farmers first do good ground preparation with spraying using herbicides to eradicate the weeds that are in the field of planting, which can also be done by piracy. The seed quality variable (X2) has an average score of 3.03 with a fairly good category. This indicates that the seeds used by some farmers have a fairly good germination capacity, with the use of certified superior seeds, but a few farmers in the selection of seeds do not pay much attention to healthy seeds with good germ capacity. The farmer's reasons are that he is still using local seeds that are potentially low-growth and can be infected with OPT because commercial superior variety seeds are expensive

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The variable of planting and maintenance (X3) average score is 2.47, with a poor category. This indicates that the predominant farmers do not plant according to the cultivation guidelines, i.e., by moving the seed of rawit pepper on the ground at the right time and in the right way, it is in accordance with the procedure according to Rosdiana et al. (2001) that the planting of rawit pepper can be done at least 2 weeks after placing the plastic mulch (if the mulch uses mulch). Planting is best done in the afternoon so that the plants do not fade. Fertilization variable (X4) has an average score of 2.67, which is in a fairly good category. This indicates that the judgment of farmers regarding fertilization according to GAP procedures and standards is quite good; some farmers have knowledge and skills in determining the type, dose, and time of fertilization and the storage of fertilizers in safe and dry places. While the plant protection variable (X5) has an average score of 2.75 with a fairly good category, this means that the crop protection aspects carried out by peanut farmers are quite consistent with the procedures on the GAP.

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OPT control by observing the PHT principle, which is to perform physical control, mechanical control, technical culture control, control with resistant varieties, and chemical control wisely. The harvest variable (X6) has an average score of 3.07, which is in a fairly good category. This means that the harvest variables carried out by farmers are quite consistent with the procedures in GAP. The harvest handling carried out by the farmers is in accordance with the GAP guidelines. Farmers can maintain the quality of the product in harvesting activities with good grinding techniques; generally, the time of harvest is 2.5 to 3 months after sowing. The next harvest can be done in 1-2 weeks, depending on the health and fertility of the plants. Harvesting is done on fruits whose flavors have reached between 80% and 90%; harvesting when young for green pepper products must be done at the time of consumption between 50% and 60% and done in the morning after the drizzle has dried with proper selection of time, i.e., once a week (Rosdiana et al., 2011). The post-harvest variable (X7) has an average score of 2.42 with a less-good category. That means six sub variables on post-harvest have not been properly implemented by farmers. For example, a special place

156 for collecting crops that is protected from direct sunlight is where farmers place their crops in
157 open spaces or containers. Farmers don't have a special place for handling clean and
158 protected post-harvest crops from direct sunlight. Farmers also do not have the packaging
159 used to protect products from the storage of distribution garbage, so products are easily
160 contaminated with chemicals or quickly rot.

161 The result of GAP variable analysis using likert scale analysis of fourteen subvariables found
162 an average score of 2.70. Based on the likert scale table that refers to Sudjana (2001), the
163 value belongs to the category quite well. Thus, the application of GAP by the farmers of rawit
164 peppers in Tidore Eastern City, Tidore Island, is quite good according to the guidelines of
165 GAP in accordance with the Regulation of the Minister of Agriculture Number 62 of 2010.
166 The results of research on farmers' rates of application of the GAP to the cultivation of rawit
167 peppers in this category are quite good. The results of this study are in line with the results
168 of research carried out by Tanjung K et al., who found that the level of freedom of farmers
169 through the application of GAP red chili rawit in Sukasari village, Rumpin district, is still low.
170 The assessment results showed that not all respondents passed the GAP registration
171 assessment of pepper because there were some unfulfilled obligatory checkpoint category
172 assessments.

173 The findings based on the Likert scale above are in line with the research (Nahraeni et al.,
174 2020) on the application of Good Agriculture Practices (GAP). Pamelorange (Citrus
175 Maxima (Burm.) Merr.) Said that farmers have begun to implement their criminal activities
176 according to the guidelines, although not all components are applied optimally at > 50%
177 (Nehraeni et al. 2020). The results of the research on the level of application of GAP, which
178 is quite well influenced by the age of the respondents who are still productive and have work
179 experience, are not in accordance with the study carried out (Kristiana & Sholeh, 2020)
180 about the implementation of good agricultural practices by horticulture farmers and its
181 development strategy in the Pamekasan district. The study stated that 100 percent of
182 farmers who are engaged in agriculture are not in line with the GAP. (Kristiana & Sholeh,
183 2020; Agustina et al., 2017).

184 One factor influencing the implementation of GAP by farmers is their more than 5 years of
185 work experience, which is in line with research (Kristiana & Sholeh, 2020) to find out the rate
186 of adoption of good agricultural practices. Arabica coffee crops by the farmers in the district
187 of South Tapanuli showed that the adoption rate of good agricultural practices is 32.40
188 percent. Various studies have been carried out in analyzing the extent of GAP application of
189 various horticultural commodities, so it can be concluded that the majority of our farmers are
190 not able to implement GAP properly, so it requires strategies to be implemented in order to
191 increase the rate of GAP application among farmers in developing cultivation techniques and
192 planting efforts.

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194 **3.2GAP Application Strategy SWOT Analysis Results**

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196 Results of the SWOT analysis of the internal and external environments of GAP
197 implementation strategies. This analysis is based on the logic of maximizing strengths and
198 opportunities while at the same time minimizing weaknesses and threats. The results of the
199 analysis determine the strategies that can be taken to influence the application of GAP
200 cultivation of pepper rawit on farmers in Tidore, Eastern City, and Tidore Island. The
201 identification of internal and external factors is presented in Table 4.

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Internal Factors	Strengths (S)	weaknesses (W)
	<ol style="list-style-type: none"> 1. The fertility of the soil is good. 2. Fertilization according to the engraving technique 3. The use of pesticides is in accordance with the technique of harvesting. 4. Harvest and post-harvest according to the harvest technique 	<ol style="list-style-type: none"> 1. Still weak mastery of production technology 2. Minimum land conservation measures 3. The packaging is not labeled, explaining the identity of the product. 4. Hygiene and health facilities are not available.
External Factors		
Opportunities (O)	Strategies S-O	Strategies W-O
<ol style="list-style-type: none"> 1. Expansion of the development of horticultural land 2. Continuous requests for chili peppers 3. The government policy of Tidore City in the development of horticultural crops 4. Development of output processing technology 	<ol style="list-style-type: none"> 1. Ground fertility has good potential for expanding the development of horticultural crops. 2. The farmer's knowledge and skills sufficiently good about the chili cultivation techniques can increase production to meet market demand. 	<ol style="list-style-type: none"> 1. Improve the mastery of production technology by farmers so that production increases to meet market demand. 2. Increase knowledge of product labeling to have good sales value and skills in product processing technology.
Threats (T)	Strategies S-T	Strategies W-T
<ol style="list-style-type: none"> 1. Opening up free trade 2. Climate Change 3. The price is fluctuating. 4. Government policies tend to change. 	<ol style="list-style-type: none"> 1. Improve the knowledge and skills of farmers on cultivation techniques in order to face free trade. 2. Improve farmers' knowledge and skills on cultivation techniques to cope with climate change. 	<ol style="list-style-type: none"> 1. Increase the mastery of technology in order to face free trade. 2. Increase farmers' knowledge of cultivation patterns to cope with climate change and fluctuating pepper prices.

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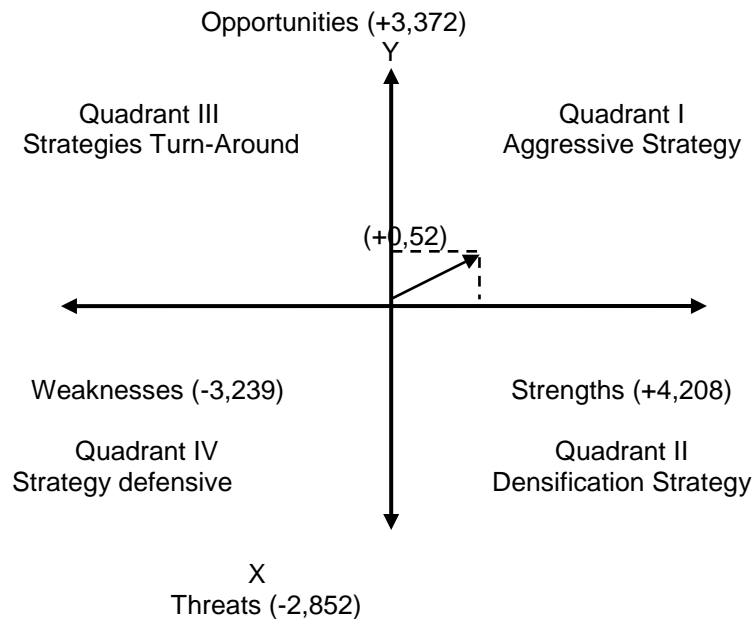
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Based on the SWOT analysis obtained, the total weight value (TNB) of internal and external factors, i.e., TNB strength is 4,208; TNB weakness is 3,239; TNB chance is 3,372; and TNB threat is 2,852. According to this kind of analysis, TNB strength is higher than TNB weakness (difference +0.969), and TNB probability is higher than threat TNB (difference +0.52). This is shown in Figure 1.

Based on the analysis of internal and external factors, the strategy to influence GAP implementation is in quarter position I. being in quarter I means a position that is quite favorable for farmers and can implement aggressive growth strategies in raw pepper

212 cultivation activities. Thus, to implement the GAP, farmers have greater strengths and
 213 opportunities than their weaknesses and threats. The highest FKK value (key success
 214 factor) on strength is the level of good soil fertility and the use of pesticides accordingly.
 215 Whereas on weakness, the highest value of FKK is still weak mastery of production
 216 technology and unavailable health and hygiene facilities. The results of the analysis are in
 217 Quadrant I, which shows that the strengths and opportunities positions are strategies to be
 218 implemented to influence the application of GAP cultivation of chili rawit on farmers. The
 219 right strategy is the S-O strategy, which, with good soil fertility and commitment and
 220 government policy in the development of horticultural crops as well as the good knowledge
 221 and skills of farmers about chili cultivation techniques, can increase the production of chili
 222 rawit in East Tidore district.

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245 **Figure 1. SWOT Diagram GAP Application Strategy**

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247 **4. CONCLUSION**

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249 The study concludes that farmers in Tidore Eastern City, Tidore Islands, have a pretty
 250 excellent level of adherence to excellent Agriculture Practices (GAP) in the production of
 251 rawit pepper, with a rate of application of 2.70. Enhancing understanding of GAP
 252 applications, particularly in terms of technology utilization and the identification of superior
 253 varieties, is crucial for boosting production. The optimal approach involves implementing
 254 the S-O strategy by focusing on soil fertility planting. Additionally, there is potential for
 255 expanding the cultivation of raw pepper crops and enhancing farmers' knowledge and skills
 256 in utilizing technology for pepper cultivation techniques. These measures have the potential
 257 to significantly increase raw pepper production in the Eastern Tidore district.

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 263 East Tidore District Farmers Committee (BPP), and the farmers in Tidore Eastern District

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265 research site.

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267 **COMPETING INTERESTS**

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269 Authors have declared that no competing interests exist.

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271 **AUTHORS' CONTRIBUTIONS**

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273 Hasnartydesigned the study, performed the statistical analysis, wrote the protocol, andwrote
274 the first draft of the manuscript. Suratman Sudjudand SuryatiTjokrodingratmanaged the
275 analyses ofthe study and managed the literature searches. All authors read and approved
276 the final manuscript.

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278 **REFERENCES**

279

- 280 1. Dewi, P. S., Reni, F. S., & Kadir, M. (2016). Penerapan Prinsip-Prinsip Good Agricultural
281 Practice (Gap) Untuk Pertanian Berkelanjutan Di Kecamatan Tinggi Moncong Kabupaten
282 Gowa Pangkep and the Islands State Polytechnic for Agriculture. *Jurnal Galung Tropika*,
283 5(3), 151–163. <https://www.researchgate.net/publication/322505755>
- 284 2. Umasugi, B., Teapon, A., & Sudjud, S. (2022). Pangan dalam Kebun, Model Pertanian
285 Petani Kepulauan: Analisis karakteristik lahan dan pendapatan petani Pulau Ternate.
286 *Agro Bali : Agricultural Journal*, 5(2), 342–348. <https://doi.org/10.37637/ab.v5i2.953>
- 287 3. Pertanian, P. M. (2009). *Budidaya, Pedoman Dan, Buah Yang, Sayur* (Issue 402, pp. 1–
288 12).
- 289 4. Purnamasari, F., Waluyati, L. R., & Masyhuri, M. (2017). The Effect of Good Agriculture
290 Practices (GAP) on Soybean Productivity with Cobb-Douglas Production Function
291 Analysis in Kulon Progo Regency. *Agro Ekonomi*, 28(2), 220.
292 <https://doi.org/10.22146/jae.26823>
- 293 5. Sitorus, R., Harianto, H., Suharno, S., & Syaukat, Y. (2020). The Application of Good
294 Agricultural Practices of White Pepper and Factors Affecting Farmer Participation.
295 *Agriekonomika*, 9(2), 129–139. <https://doi.org/10.21107/agriekonomika.v9i2.6824>
- 296 6. Wakhid, A., & Suciati, L. P. (2020). Penerapan Dan Faktor-Faktor Yang Mempengaruhi
297 Good Agriculture Practices (Gap) Usahatani Kopi Rakyat Di Lereng Argopuro Kabupaten
298 Jember. *JSEP (Journal of Social and Agricultural Economics)*, 13(2), 159.
299 <https://doi.org/10.19184/jsep.v13i2.16140>
- 300 7. Ashari, B. H., Wibawa, B. M., & Persada, S. F. (2017). Analisis Deskriptif dan Tabulasi
301 Silang pada Konsumen Online shop di Instagram (Studi Kasus 6 Universitas di Kota
302 Surabaya). *Jurnal Sains Dan Seni ITS*, 6(1), 17–21.
303 <https://doi.org/10.12962/j23373520.v6i1.21403>
- 304 8. Pranatawijaya, V. H., Widiatry, W., Priskila, R., & Putra, P. B. A. A. (2019). Penerapan
305 Skala Likert dan Skala Dikotomi Pada Kuesioner Online. *Jurnal Sains Dan Informatika*,
306 5(2), 128–137. <https://doi.org/10.34128/jsi.v5i2.185>
- 307 9. Benzaghta, M. A., Elwalda, A., Mousa, M., Erkan, I., & Rahman, M. (2021). SWOT
308 analysis applications: An integrative literature review. *Journal of Global Business*
309 *Insights*, 6(1), 55–73. <https://doi.org/10.5038/2640-6489.6.1.1148>
- 310 10. Kristiana, L., & Sholeh, M. S. (2020). Implementasi Gap (Good Agricultural Practices)
311 Pada Petani Hortikultura Dan Strategi Pengembangannya Di Kabupaten Pamekasan.
312 *JSEP (Journal of Social and Agricultural Economics)*, 13(3), 242.
313 <https://doi.org/10.19184/jsep.v13i3.17921>
- 314 11. Nahraeni, W., Masitoh, S., Rahayu, A., & Awaliah, L. (2020). Penerapan Good
315 Agricultural Practices (Gap) Jeruk Pamelor (Citrus maxima (Burm.) Merr.). *Jurnal*
316 *Agribisains*, 6(1), 50–59. <https://doi.org/10.30997/jagi.v6i1.2804>

317 12. Agustina, F., Zahri, I., Yazid, M., & Yunita, . (2017). Strategy in Developing Good
318 Agricultural Practices (GAP) in Bangka Regency, of Bangka Belitung Island Province.
319 *Jurnal Ilmu Pertanian Indonesia*, 22(2), 133–139. <https://doi.org/10.18343/jipi.22.2.133>