

Survey Of Physical Education Sports Facilities And Infrastructure In Public Elementary Schools In South Palu Subdistrict

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ABSTRACT

This study aims to determine the availability of Physical Education and Sports Facilities and Infrastructure Surveys in public elementary schools in the South Palu sub-district. It uses a quantitative descriptive approach. The instrument used is an observation sheet that measures four aspects: sports, facilities and infrastructure, quantity, and condition. The research sample consisted of one physical education teacher at SD Inpres 5 Lolu, two physical education teachers at SD Inpres 5 Birobuli, and two physical education teachers at SD Inpres 2 Birobuli. The results of the study showed that the facilities and infrastructure for athletics sports had a percentage of 200% or very adequate, games had a percentage of 160% or very adequate, rhythmic activities had a percentage of 166% or very adequate, and the overall average of facilities and infrastructure in elementary schools in the South Palu sub-district had a percentage of 138% or quite adequate. This study recommends that schools provide comprehensive facilities and be willing to contribute to training and participate in any sports competitions to develop the potential interests and talents of students.

Keywords: Facilities and infrastructure, sport psychological education.

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INTRODUCTION

Physical education is a crucial component of the education system, aiming to develop various aspects of students, both physically and mentally. Physical education goes beyond teaching physical activity; it also serves broader purposes, including character building, improving social skills, and strengthening moral values. In this regard, physical education serves as a means to build a healthy and fit body, enhance motor skills, and teach students how to work as a team.

Physical activities and sports integrated into physical education can influence balanced physical and mental development, as well as provide opportunities for students to develop critical thinking skills in decision making.(Thought et al., 2022). That the availability of adequate sports facilities and infrastructure plays an important role in increasing the effectiveness of learning and student participation in physical activities.(Harianto et al. 2024). Complete and high-quality facilities can facilitate the learning process, enable teachers and students to better practice sports, and increase student motivation to actively participate in physical activities. Survey of Physical Education and Sports Facilities and Infrastructure in Public Schools in South Palu District, located in the South Palu area, Palu City, Central Sulawesi

As an educational institution that is obliged to pay attention to the quality of learning, it is necessary to ensure that the facilities and infrastructure used for physical education are sufficient and in good condition.(Siregar et al., 2024).. Considering that physical education plays a big role in shaping students' character and health, schools must provide facilities that support effective and enjoyable learning.(Kumara & Dewangga, 2024).

METHOD

1) Research Design

This study employed a quantitative research design with a survey method. The survey method was used to obtain information regarding the condition of physical education and sports facilities and infrastructure in schools. According to Sugiyono (2014), quantitative methods are research methods based on the philosophy of positivism, used to study specific populations or samples by collecting data using research instruments and analyzing statistical data to test predetermined hypotheses. The survey research was conducted to determine the distribution and condition of existing sports facilities and infrastructure, thereby providing a realistic picture of the availability of these facilities.

2) Location, Population, and Sample

This research was conducted at public junior high schools in South Palu District. The population comprised all public junior high schools in the district. Total sampling was used to sample all schools involved, thus representing the entire population. Therefore, the data obtained accurately reflects the actual condition of physical education and sports facilities and infrastructure in the region.

3) Data Collection Techniques

The data collection technique in this study used observation (direct observation). Researchers conducted surveys at schools by directly observing the condition of sports facilities and infrastructure. Data was collected through recording on a pre-prepared observation sheet, ensuring that the information obtained was objective and systematic.

4) Research Instruments

The research instrument used was an observation sheet. This instrument served as a measuring tool to record the number, type, and condition of sports facilities and infrastructure available at each school. The research instrument was compiled based on indicators relevant to physical education facility and infrastructure standards, ensuring valid and accountable data.

5) Data Analysis Techniques

The data analysis technique used was quantitative descriptive analysis. Data obtained from observations were then processed and presented in tabular form, categorized based on the level of completeness of facilities and infrastructure.

The descriptive analysis in this study aims to determine the level of availability and condition of sports physical education facilities and infrastructure in State Junior High Schools in South Palu District, so that it can provide a clear picture of the condition of sports facilities in schools.To find out the number of adequate facilities and infrastructure in the physical education subject for each sport based on the curriculum taught by schools in South Palu

District with the ideal number of facilities, namely by multiplying by 100%. (Maryanti & Suwardi 2024).

Table 1. Determining the ideal number of facilities

$$\text{Percentage} = \frac{\text{Number of available facilities}}{\text{Ideal number of facilities}} \times 100$$

RESULTS AND DISCUSSION

Research result

Based on the results of the research that the author found in 3 (three) schools in South Palu District, namely SD Inpres 5 Lolu, SD Inpres 5 Birobuli, and SD Inpres 2 Birobuli. The three elementary schools are located in the South Palu district which is a strategic area or is located in the residential area of Palu Selatan. Furthermore, this can have a fairly effective impact on the health and physical well-being of children in the South Palu district or even in Palu City. Facilities and infrastructure are important things in supporting the lives of children in Palu City, which can make it easier for children to be more familiar with the field of sports or even provide support for prospective young athletes. Therefore, facilities and infrastructure are fundamental to the physical and spiritual sustainability of children in Palu City.

Table 1. Percentage of adequate facilities in schools in South Palu District.

Sports	Presentation	Category
Athletics	200%	Very Adequate
Game	160%	Very Adequate
Rhythmic Activity	166%	Very Adequate
Average	138%	Sufficiently Adequate

The percentage results from table 1 of the condition of sports facilities and infrastructure in elementary schools in South Palu sub-district are as follows:

- 1) The average percentage of facilities and infrastructure for athletics in elementary schools in South Palu sub-district is 200% or in the very adequate category.
- 2) The average percentage of facilities and infrastructure for games branches in elementary schools in South Palu sub-district is 160% or in the very adequate category.
- 3) The average percentage of facilities and infrastructure for the Rhythmic Activity branch in elementary schools in South Palu sub-district is 166% or in the very adequate category.
- 4) The average percentage of facilities and infrastructure for learning Physical Education, Sports and Health in Public Elementary Schools in South Palu District is 138% or in the fairly adequate category.

Discussion

Facilities and infrastructure are supporting elements in physical education and sports learning. Despite their role as supporting elements, if adequate facilities and infrastructure are not available, sports learning will not run optimally (Amin et al. 2025).

Sports facilities are supporting resources consisting of all forms and types of equipment and supplies used in sports activities. Infrastructure is a supporting resource consisting of sports venues in the form of buildings to meet the requirements set for the implementation of sports programs. In sports, infrastructure is defined as something that simplifies and expedites tasks and is relatively permanent.(Pesi et al. 2025)

The implementation of Physical Education, Sports, and Health learning in schools requires the support of adequate facilities and infrastructure, both in type and quantity. Physical education learning will be less than optimal if it does not have adequate facilities and infrastructure, considering that almost all branches of sports and physical education require adequate facilities and infrastructure. The need for facilities and infrastructure in acquiring knowledge in physical education can be very vital, meaning that physical education should use facilities and infrastructure that are appropriate to the desires and methods of manipulation or use.(Bafadal et al. 2024).

A lack of physical education facilities can slow down the learning process, such as having students queue to change equipment and infrastructure. This can lead to boredom, resulting in suboptimal learning. Furthermore, it can also impact students' fitness goals. Therefore, the availability of adequate physical education facilities and infrastructure is crucial. Adequate facilities and infrastructure can accommodate physical education teachers in delivering material. Educators will be able to maximize their delivery and focus their material, using a variety of methods and variations in the teaching and learning process, thereby achieving and optimizing the goals of physical education learning.(Hidasari et al. 2025).

Data on the availability of physical education learning facilities and infrastructure in public elementary schools in South Palu District currently shows 138% of the facilities and infrastructure available for physical education learning. All sports have adequate facilities and sufficient equipment to support learning. This aligns with research findings that the availability of adequate facilities and infrastructure positively impacts the effectiveness of the physical education learning process, particularly in increasing student participation and learning outcomes (Pratama & Wibowo, 2021; Suryadi et al., 2022).

Regarding the utilization of learning infrastructure, research findings revealed that one of the problems identified was the theft of infrastructure at an elementary school in South Palu District, including shuttlecocks, badminton rackets, stopwatches, volleyball and badminton nets, basketballs, tennis balls, and relay batons. This problem resulted in limited equipment to support the learning process, both for practical activities and assessments. This condition is supported by research stating that the security and management of infrastructure are important factors in the continuity of physical education learning, as the loss or damage of equipment can hinder the achievement of learning objectives (Rahmawati et al., 2020; Nugroho & Setiawan, 2023).

Furthermore, suboptimal management of facilities and infrastructure, including supervision and maintenance, can lead to an imbalance between the availability and utilization of equipment in schools. Recent research also shows that schools without a good inventory

management system are more likely to experience loss or misuse of facilities, which impacts the quality of physical education learning (Hidayat et al., 2021; Firmansyah & Kurniawan, 2024).

CONCLUSION

Facilities and infrastructure in elementary schools in South Palu District are SD Inpres 5 Lolu, SD Inpres 5 Birobuli, and SD Inpres 2 Birobuli. The three elementary schools are located in the South Palu District area which is a strategic area or is located in the residential area of Palu City. The author found the average percentage of facilities and infrastructure for athletics branches in elementary schools in South Palu District of 200% or in the very adequate category, the average percentage of facilities and infrastructure for Games branches in elementary schools in South Palu District of 160% or in the very adequate category, The average percentage of facilities and infrastructure for Rhythmic Activities branches in elementary schools in South Palu District of 166% or in the very adequate category. Overall, the average percentage of facilities and infrastructure for learning Physical Education, Sports and Health in Public Elementary Schools in South Palu District is 138% or in the quite adequate category.

Regarding the utilization of learning infrastructure, the research revealed that one of the problems identified by the author was the theft of facilities and infrastructure at an elementary school in South Palu District. These include shuttlecocks, badminton rackets, stopwatches, volleyball and badminton nets, basketballs, tennis balls, and relay batons. This problem limited the tools used for learning at a public elementary school in South Palu District, which are used for practice and assessment.

BIBLIOGRAPHY

- Amin, R., Asnaldi, A., Sepriani, R., & Kata Kunci. (2025). Tinjauan sarana dan prasarana pendidikan jasmani olahraga dan kesehatan (PJOK) di sekolah menengah pertama (SMP) se-Kecamatan Simpang Alahan Mati (Simpati) Kabupaten Pasaman. *Jurnal Pendidikan dan Olahraga*, 8(1), 261–271. <http://jpdo.ppj.unp.ac.id/index.php/jpdo/article/view/2242>
- Arikunto, S. (2014). *Prosedur penelitian: Suatu pendekatan praktik* (Edisi revisi). Jakarta: Rineka Cipta.
- Arman. (2014). *Metodologi penelitian pendidikan*. Palu: Universitas Tadulako Press.
- Bafadal, M. F., Irpan, Y., Aryani, N., Toyip, T., & Nasrun, N. (2024). Evaluasi sarana dan prasarana olahraga SMP Negeri. *Jurnal Pendidikan Olahraga*, 14(4), 312–318. <https://doi.org/10.37630/jpo.v14i4.1704>
- Firmansyah, R., & Kurniawan, D. (2024). Manajemen sarana dan prasarana pendidikan jasmani di sekolah dasar. *Jurnal Pendidikan Olahraga Indonesia*, 10(1), 45–56.

- Hidasari, F. P. P., Bafadal, M. F., Rasdi, R., Saragih, Y. M., & Triyana, T. (2025). Evaluasi sarana dan prasarana pembelajaran pendidikan jasmani olahraga dan kesehatan di SMPN 4 Pontianak Timur. Universitas Tanjung Pura.
- Hidayat, T., Santoso, B., & Lestari, P. (2021). Pengelolaan fasilitas pendidikan jasmani dalam meningkatkan kualitas pembelajaran. *Jurnal Keolahragaan*, 9(2), 120–130.
- Hariato, B., Angga, P. D., Jaelani, A. K., & Makki, M. (2024). Survei sarana dan prasarana pendidikan jasmani olahraga dan kesehatan di sekolah dasar negeri se-Kecamatan Keruak. *Jurnal Ilmiah Profesi Pendidikan*, 9(2), 1231–1236. <https://doi.org/10.29303/jipp.v9i2.2255>
- Kumara, F. R., & Dewangga, M. T. S. (2024). Peranan penggunaan model pembelajaran e-learning dalam meningkatkan kualitas pembelajaran. *Academy of Education Journal*, 15(1), 288–292. <https://doi.org/10.47200/aoej.v15i1.2164>
- Maryanti, I., & Suwardi, T. E. (2024). Pengembangan media pembelajaran interaktif berbasis web dengan pendekatan etnomatematika pada materi bangun ruang sisi datar. *Journal of Mathematics Science and Education*, 7(1), 24–34. <https://doi.org/10.31540/jmse.v7i1.3328>
- Nugroho, A., & Setiawan, E. (2023). Analisis keamanan sarana olahraga di lingkungan sekolah dasar. *Jurnal Pendidikan Jasmani dan Olahraga*, 8(3), 210–218.
- Pemikiran, J. J., Pengembangan, D. A. N., Dasar, S., Ardi, K., Sapti, M., & Rizkia, R. (2022). Pengembangan e-modul bangun datar berbasis teori multiple intelligence untuk siswa kelas IV SDN Ngupasan, 10(1), 96–103.
- Pesi, S. A., Deu, E. S., Ule, K. A., & Natal, Y. R. (2025). Survei sarana dan prasarana pendidikan jasmani olahraga dan kesehatan di SMA Negeri 1 Soa. *Jurnal Citra Magang dan Persekolahan*, 3(1), 46–54. <https://doi.org/10.38048/jcmp.v3i1.4263>
- Pratama, R., & Wibowo, S. (2021). Pengaruh sarana prasarana terhadap hasil belajar pendidikan jasmani. *Jurnal Sport Science*, 6(2), 89–97.
- Rahmawati, D., Putra, A., & Sari, M. (2020). Kendala pemanfaatan fasilitas pendidikan jasmani di sekolah dasar. *Jurnal Ilmu Keolahragaan*, 5(1), 33–41.
- Siregar, F. S., Tambunan, R. S. P., Simamora, F. D., Situmorang, D., & Sitorus, K. (2024). Analisis peran sarana dan prasarana dalam proses pendidikan jasmani dan keolahragaan di sekolah dasar. *Jurnal Pendidikan, Bahasa dan Budaya*, 3(4), 157–167. <https://doi.org/10.55606/jpbb.v3i4.4639>
- Sugiyono. (2014). Metode penelitian kuantitatif, kualitatif, dan R&D. Bandung: Alfabeta.
- Suryadi, L., Hendra, Y., & Prakoso, F. (2022). Hubungan ketersediaan sarana dengan partisipasi siswa dalam pembelajaran PJOK. *Jurnal Pendidikan Olahraga*, 7(2), 150–158.
- Wijaya, K. A. (2022). Ketersediaan sarana dan prasarana olahraga dalam mendukung efektivitas pembelajaran pendidikan jasmani. *Pendidikan Olahraga*, 11(2), 45–56.
- Kumara, F. R., & Dewangga, M. T. S. (2024). Peranan penggunaan model pembelajaran e-learning

dalam meningkatkan kualitas pembelajaran. *Academy of Education Journal*, 15(1), 288–292. <https://doi.org/10.47200/aoej.v15i1.2164>