

**PATH ANALYSIS PADA HUBUNGAN ANTAR PILAR KETERSEDIAAN AIR, INSTITUSI DAN SUMBERDAYA MANUSIA TERHADAP PENGELOLAAN IRIGASI DAERAH IRIGASI KOMERING, SUMATERA SELATAN**

**INTISARI**

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Kegiatan pertanian tidak terlepas dari penggunaan air irigasi. Dalam pelaksanaannya pengelolaan irigasi dipengaruhi oleh pilar irigasi yang meliputi infrastruktur, institusi, sistem pembiayaan, ketersediaan air dan sumberdaya manusia. Penelitian ini bertujuan untuk membangun model keterkaitan dan mengukur pengaruh ketersediaan air, sumberdaya manusia, institusi dengan pengelolaan irigasi menggunakan *Path Analysis*. Penelitian ini dilakukan pada Daerah Irigasi Komering. Instrumen yang digunakan yaitu kuesioner dengan responden Perkumpulan Petani Pemakai Air (P3A) serta Petugas Pintu Air (PPA) dan juru irigasi. Metode yang digunakan yaitu skala likert, uji validitas, uji reliabilitas, dan regresi.

Hasil penelitian ini di peroleh 2 model. Model 1 institusi ( $x_3$ ) =  $0,751(\beta_{x_3x_1}) + 0,242(\beta_{x_3x_2}) + \varepsilon_1$  dan model 2 pengelolaan irigasi ( $y$ ) =  $0,624(\beta_{yx_1}) + 0,049(\beta_{yx_2}) + 0,285(\beta_{yx_3}) + \varepsilon_2$ . Pengaruh langsung ketersediaan air terhadap pengelolaan irigasi 62,4 % sedangkan pengaruh tidak langsung sebesar 21,4 %. Nilai total pengaruh ketersediaan air terhadap pengelolaan irigasi melalui institusi 83,8%. Pengaruh langsung sumberdaya manusia terhadap pengelolaan irigasi 4,9% sedangkan pengaruh tidak langsung sebesar 6,8 %. Pengaruh sumberdaya manusia terhadap pengelolaan irigasi melalui institusi 11,7 %.

Kata kunci: Pengelolaan irigasi, *Path Analysis*, pilar irigasi, P3A.

**PATH ANALYSIS ON THE RELATIONSHIP AMONG THE PILLARS OF WATER AVAILABILITY, INSTITUTION AND HUMAN RESOURCES FOR IRRIGATION MANAGEMENT OF THE KOMERING IRRIGATION SYSTEM, SOUTHERN SUMATERA**

**ABSTRACT**

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Agriculture activity cannot be separated from the usage of water. There are many factor cause low irrigation management performance such as, infrastructure, institution, funding system, water availability and human resources. This research aimed to develop and measure linkage of water availability model, adequate human resources, and institution with irrigation management by using *Path Analysis*. This study is located in Komering Irrigation System (DI). The Instrument used were questionnaires for Water Use Association (P3A) respondents also gate guard (PPA) and field staffs. Method that used for this study are likert scale, regression, rehabilitation test, and validity test.

This study resulted in two models namely, model 1, institution ( $x_3$ ) =  $0,751(\beta_{x_3x_1}) + 0,242(\beta_{x_3x_2}) + \varepsilon_1$  and model 2, irrigation management ( $y$ ) =  $0,624(\beta_{yx_1}) + 0,049(\beta_{yx_2}) + 0,285(\beta_{yx_3}) + \varepsilon_2$ . Immediate effect of the availability of water to the irrigation management is 62,4 % while indirect effect was 21,4 %. The total effect of water availability through the irrigation management was 83,8 %. Immediate effect of human resouces through management irrigation was 4,9 % while indirect effect was 6,8 %. The effect of human resources to the irrigation management through institution was 11,7 %.

**Keywords:** Irrigation management, *Path Analysis*, Irrigation pillar and Water use Association (P3A).