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*Ir. Irsal, M.P., born in Belawan on January 31, 1963, is a lecturer in Agrotechnology at the Universitas Sumatera Utara. He has special expertise in Plant Ecology and Plantation Crops. Irsal earned his bachelor's degree from the Universitas Sumatera Utara and continued his education for a master's degree in Agronomy, also from the Universitas Sumatera Utara, graduating in 2004.*

*As an enthusiast of plant ecology and plantation science, Ir. Irsal, M.P., is actively involved in research and teaching activities at the Universitas Sumatera Utara. His dedication reflects his commitment to disseminate knowledge and understanding of plant ecology and its role in the context of agriculture and plantations to students and the community.*

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## Publications

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2017

Jurnal nasional

**Pengaruh Curah Hujan dan Hari Hujan Terhadap Produksi Karet Berumur 7, 10 dan 13 Tahun di Kebun Sei Baleh Estate PT. Bakrie Sumatera Plantations, Tbk**

LISA MAWARNI, IRSAL

2019

Jurnal nasional terakreditasi

**Pengaruh Curah Hujan dan Hari Hujan terhadap Produktivitas Kelapa Sawit Berumur 7, 15, dan 19 Tahun di Kebun Aek Loba PT. Socfin Indonesia: Influence of rainfall and rainy day**

IRSAL, LISA MAWARNI

2021

Jurnal nasional

**Effect of Dormancy Treatment on Germination of Arabica Coffee (Coffea arabica L.)**

T IRMANSYAH, IRSAL

2024

Jurnal nasional terakreditasi

**The Relationship of Climate Elements to the Productivity of Tea Plants (Camellia sinensis L) in Bah Butong Plantation PTPN IV Tahun 1995-1999**

IRSAL, ARWANI FITRI

2018

Jurnal nasional

**Influence of rainfall and rainy day on the rubber productivity (Hevea brasiliensis Muell-Arg.) in 10, 15 and 20 years old in Aek Pamienke Plantation PT. Socfin Indonesia (SOCFINDO)**

IRSAL, MARIATI

2019

Jurnal nasional terakreditasi

**Pengaruh Curah Hujan dan Hari Hujan Terhadap Produktivitas Dua Varietas Kelapa Sawit di Kebun Berangir PT. Perkebunan Nusantara IV**

CHARLOQ, IRSAL

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2019

Jurnal nasional terakreditasi

**Pengaruh Curah Hujan Dan Hari Hujan Terhadap Produksi Kelapa Sawit Berumur 7, 10, Dan 13 Tahun Di Kebun Huta Padang PT. Perkebunan Nusantara III Persero: Influence of rainfall&A ...**

LISA MAWARNI , IRSAL

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2023

Buku lainnya

**The Influence of Climate on Tea Crop Productivity (Camellia sinensis L.) in the Bah Butong plantation 2000 - 2004**

IRSAL , ERWINA SURBAKTI

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2018

Jurnal nasional

**Pengaruh Curah Hujan Dan Hari Hujan Terhadap Produksi Kelapa Sawit Berumur 8, 16, Dan 19 Tahun Di Kebun Sei Dadap PT. Perkebunan Nusantara III Persero**

MARIATI , IRSAL

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2021

Jurnal nasional

**Effect of Dormancy Treatment on Germination of Arabica Coffee ( Coffea arabica L.)**

IRSAL , T IRMANSYAH

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2020

Prosiding seminar internasional

**Application of bamboo shoot extract as natural plant growth regulator on the growth binahong (Anredera cordifolia (Ten.) Steenis.) in Tanah Karo**

YAYA HASANAH , IRSAL , LISA MAWARNI

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2024

Jurnal nasional terakreditasi

**The Influence of Climate Elements toTea Plant Productivity(CamelliasinensisL.)At Bah Butong Plantation PTPN IV 2005-2009**

IRSAL , ADITYA JOHANDRY SIAHAAN

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2014

Jurnal nasional

**Pemanfaatan Mikofer pada Kelapa Sawit dengan Interval Penyiraman di Pembibitan**

YAYA HASANAH , IRSAL

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## Researches

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2024

**The Influence of Climate on Tea Crop Productivity (Camellia sinensis L.) in the Bah Butong Plantation PTPN IV 2017-2021**

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2025

**Interpretation Analysis Between Land Slope, Rainfall, and Number of Bunches on the Productivity of Oil Palm Plants (Elaeis guineensis Jacq.) at Silau Dunia Plantation PT. Perkebunan Nusantara IV Regional I**

IRSAL , MAULANA MUHAMMAD SIREGAR

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2023

**Pengolahan Kopi Tepat Guna Mendukung Pertanian Berkelanjutan Di Desa Telagah, Sei Bingei, Langkat**

IRSAL

2025

**Interpretation Analysis Between Rain, Number Of Bunches and Land Slope on Oil Paim Plantation Productivity in Huta PadangPLantation PT PN IV regional 1**

IRSAL , ALGHI FAHRY LESMANA

2024

**The Influence of Climate on Tea Crop Productivity (Camellia sinensis L.) in the Bah Butong plantation 2000 - 2004**

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2024

**The Influence of Climate on Tea Crop Productivity (Camellia sinensis L.) in the Bah Butong plantation 2000 - 2004**

IRSAL , ERWINA SURBAKTI

2024

**The Influence of Climate Elements to Tea Plant Productivity (Camellia SinensisL.) At Bah Butong Plantation PTPN IV 2005-2009**

IRSAL

2024

**Hubungan Unsur Iklim Terhadap Produktivitas Tanaman Teh (Camellia Sinensis L.) Di Kebun Bah Butong PTPN IV Tahun 1995-1999**

IRSAL

2019

Penelitian Unggulan Perguruan Tinggi

**Model Penataan Distrik Agrowisata Sebagai Alternatif Penguatan Destinasi Wisata Danau Toba**

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## Community Services

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2023

Ipteks Bagi Wilayah

**MANGGROVE MERDEKA**

IRSAL , AMEILIA ZULIYANTI SIREGAR

2022

Ipteks

**Model Edukop Mengelola Kopi Arabica Tepat Guna Mendukung Wisata Telagah**

IRSAL , AMEILIA ZULIYANTI SIREGAR

2025

**PENANAMAN MANGROVE**

IRSAL

2024

Ipteks Bagi Masyarakat

**MANGGROVE MERDEKA**

IRSAL , AMEILIA ZULIYANTI SIREGAR

2023

**PEMANFAATAN LIMBAH ORGANIK RUMAH TANGGA DAN PENANAMAN HOLTIKULTURA SKALA KECIL DI DESA AIRJOMAN KABUPATEN ASAHAN**

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