

# FLOOD BASED FARMING SYSTEMS IN EAST AFRICA SPATE IRRIGATION

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**What methods of irrigation are used in East Africa?**

**What is spate irrigation system?** Spate irrigation is the art and science of water management that is unique to semi-arid environments. It is found in the Middle East, North Africa, West Asia, East Africa and parts of Latin America. Flood water from mountain catchments is diverted from river beds (wadis) and spread over large areas.

**What is flood-based farming?** Flood-based farming is a rainfed farming system that occurs in dryland areas and relies on supplementary water derived from various types of floods (Liman Harou et al., 2020).

**Why is irrigation farming carried out in some parts of East Africa?** With the ever increasing population, dwindling land holdings, and rainfall being erratic in many areas, irrigation is an important tool to curb food shortages that are a recurrent problem in several communities of East Africa. Irrigation also plays a major role in moving farmers from subsistence to commercial farming.

**Which type of farming is practiced by most people in East Africa?** The region includes a diversity of farming systems, from the humid highlands of Uganda, the coastal areas on Tanzania and Kenya to the drylands of Sudan and Ethiopia. Cropping systems including maize, sorghum and teff are common as well as extensive grazing and intensive dairy and vegetable, coffee and tea production.

**What is the largest irrigation scheme in Africa?** \* Built in 1925, the Gezira Scheme is one of the largest irrigation schemes in Africa. It is located along the Blue

Nile River in Sudan and irrigates over 850,000 hectares of land. The scheme primarily grows cotton, but also produces sorghum, wheat, and other crops.

**What is the flood irrigation method?** Flood irrigation is a practice in which an entire field is covered with water, while furrow irrigation adds water through furrows adjacent to crop beds.

**What is the difference between sprinkler and trickle irrigation?** Sprinkler irrigation: Delivers water quickly over a large area, resulting in a higher application rate. Drip irrigation: Delivers water slowly and consistently, allowing for a lower application rate tailored to the specific water needs of each plant.

**Does flood irrigation work?** Flood irrigation has long been part of SRP's history and is an efficient way to get water to plants in your yard. It's also a great way to grow large canopy trees that can absorb carbon dioxide and provide shade, reducing the urban heat island effect.

**What crops can survive flooding?** Of the major food crops, only rice (*Oryza sativa*) is currently able to survive flooding. Thanks to new research, that could soon change -- good news for a world in which rains are increasing in both frequency and intensity.

**Why do floodplains tend to make good farmland?** Floodplains are usually very fertile agricultural areas. Floods carry nutrient-rich silt and sediment, and distribute it across a wide area. floodplains are flat and often have relatively few boulders or other large obstacles that may prevent farming.

**Why do farmers flood their fields?** For generations, during dry periods, California farmers have pumped water from deep underground to keep their crops hydrated when surface water supplies are scarce. Gemperle is no exception.

**Which country has the best irrigation system in the world?** North America, the United States and Canada are the two leading countries in terms of irrigation technology. In the United States, the majority of irrigation systems are powered by electric pumps, while in Canada most systems are gravity-fed. In other parts of the world, irrigation systems vary greatly.

**Does Africa have irrigation systems?** Currently, less than 5% of cultivated land in sub-Saharan Africa is irrigated.

**Is East Africa good for farming?** The overall aim was to drive transformative change and sustainable development in Africa's agriculture. East Africa boasts immense agricultural potential, with fertile soils, favorable climates, and a growing demand for food.

**What is the most profitable farming in Africa?** Grains, especially corn, wheat, millet, and rice, are some of Africa's most widely cultivated profitable plants.

**What are the three main types of farming found in Africa?** Agriculture in Africa: African farmers utilize a variety of farming practices for crop production. The most common farming practices are subsistence farming, large-scale farming, and extensive farming.

**Which country is most advanced in agriculture in Africa?** Between 2020 to 2022, Sierra Leone registered the agricultural sector's highest contribution of the to the GDP in Africa, at over 60 percent. Niger and Ethiopia followed, with agriculture, forestry, and fishing accounting for approximately 42 percent and 38 percent of the GDP, respectively.

**Why do many farmers in southern and eastern Africa rely on irrigation?** Furthermore, an irrigated agriculture system enables multiple crop production seasons per year and allows for crop production on drylands, which are known to account for about three-quarters of the agricultural land in Africa.

**What is the most advanced irrigation system?** Subsurface drip irrigation (SDI) is the most advanced method of irrigation.

**What country has irrigated agriculture in Africa?** Analysing best practices from Ethiopia, Kenya, Mali, Morocco, Niger and South Africa, the report authors find yields from irrigated crops can be double or more of comparable rain-fed yields on the continent.

**Does Africa have irrigation systems?** Currently, less than 5% of cultivated land in sub-Saharan Africa is irrigated.

**What provides water for irrigation in the northeast Africa?** For thousands of years, the river has provided a source of irrigation to transform the dry area around it into lush agricultural land. Today, the river continues to be a vital freshwater resource for millions of northeast Africans who rely on it for irrigation, drinking water, fishing, and hydroelectric power.

**What is irrigation system in Nigeria?** Surface Irrigation: This is one of the most common types of Irrigation in Nigeria, especially in the North. It has methods of applying water to the crops like furrow and canals. So in this method, you channel water from a water source into the farm.

**What methods were used to Colonise East Africa?** The colonialists used a number of methods and strategies to compel Africans to submit to colonialism and colonial administration. These included the use of conquest, forced labour, taxation, monetization of the economy, and payment of low wages.

### **Signals and Systems: Essential Questions and Answers**

Uday Kumar's "Signals and Systems" textbook provides a comprehensive overview of the fundamental concepts in signal processing and analysis. Here are some key questions and answers to enhance your understanding:

**1. What are signals and systems? Answer:** Signals are mathematical functions that describe the behavior of a physical quantity over time or space. Systems are mathematical entities that process or manipulate input signals to generate output signals.

**2. What is the Fourier transform? Answer:** The Fourier transform is a mathematical operator that converts a time-domain signal into a frequency-domain representation. It decomposes a signal into its constituent sinusoidal components, providing insights into its spectral properties.

**3. What are the different types of filters? Answer:** Filters are systems designed to attenuate or enhance specific frequency components of a signal. Common types include low-pass filters, high-pass filters, band-pass filters, and band-stop filters.

**4. What is the impulse response of a system? Answer:** The impulse response of a system is the output signal obtained when an impulse function (a signal with zero amplitude everywhere except for a single, infinitesimally small peak) is applied to the system's input. It provides information about the system's dynamics and stability.

**5. What is the Laplace transform? Answer:** The Laplace transform is a mathematical operator that converts a time-domain signal into a complex-frequency domain representation. It is used to analyze the stability of systems, find transfer functions, and solve linear differential equations.

## **Soccer Team Donation Request Letter: Frequently Asked Questions**

### **What is a soccer team donation request letter?**

It is a formal letter written by a soccer team or organization, seeking financial assistance from individuals or businesses. The letter outlines the team's goals, achievements, and specific needs for which the donation will be used.

### **What information should the letter include?**

- Team name and contact information
- Brief history and accomplishments
- Purpose and goals of the donation
- Specific items or services that the donation will fund (e.g., new uniforms, travel expenses)
- Proposed budget or financial statement
- Tax-deductible status (if applicable)

### **Who can write a donation request letter?**

Any authorized representative of the soccer team or organization, such as the team captain, coach, or fundraising committee chairperson.

### **How do I write an effective donation request letter?**

Start with a strong introduction that grabs the reader's attention. Highlight the team's achievements and the positive impact it has made on the community. Quantify your

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needs by providing a specific budget or financial statement. Clearly state how the donation will be utilized to benefit the team. Use persuasive language and testimonials to emphasize the importance of supporting the team.

### **What are some tips for getting a donation?**

- Personalize the letter by addressing the recipient by name.
- Proofread carefully for any errors.
- Include a call to action with clear instructions on how to donate.
- Follow up with potential donors to thank them and provide updates on the team's progress.

**What is Roald Dahl kiss kiss about?** Can a wronged woman take revenge on her dead husband? In these dark, disturbing stories Roald Dahl explores the sinister side of human nature: the cunning, sly, selfish part of each of us that leads us into the territory of the unexpected and unsettling.

**What is Roald Dahl's real name?** Roald Dahl (1916–1990) Dahl, Roald (1916–1990), writer of fiction, was born on 13 September 1916 at Villa Marie, Fairwater Road, Llandaff, Glamorgan, the son of Harald Dahl, shipbroker, and his second wife, Sofie Magdalene, daughter of Olaf Hesselberg, meteorologist and classical scholar.

**What is Roald Dahl's best selling book of all time?** "Charlie and the Chocolate Factory".

**Did Roald Dahl marry anyone?** In 1983 Neal and Dahl divorced and Dahl married Felicity, at Brixton Town Hall, South London. Felicity (known as Licky) gave up her job and moved into Gipsy House, Great Missenden in Buckinghamshire, which had been Dahl's home since 1954.

**What is the story of the kiss?** The man and woman are the only people depicted in Klimt's painting. The Kiss projects the two lovers outside of time and space through their passion and desire for one another. Although we are not certain, it is believed that the lovers depicted are the artist and his long-time partner, fashion designer Emilie Flöge.

**What song is Kiss Kiss based on?** "Kiss Kiss" served as the debut single of American recording artist Stella Soleil. It is a remake of "??mar?k" with new lyrics. The English version was credited to Juliette Jaimes, Sezen Aksu, Tarkan, and Steve Welton-Jaimes.

**How old was Roald Dahl when she died?** He lived in Great Missenden, Buckinghamshire. He died on 23 November 1990 in Oxford, from myelodysplastic syndrome, aged 74.

**Who did Roald Dahl leave his money to?** Roald Dahl died in 1990 at age 74 and was believed to have a net worth of \$10 million. After Roald's death, his widow Felicity inherited the majority of the \$3.75 million he left in his will. This is worth nearly \$6.75 million in today's dollars.

**When did Roald Dahl come out?** In 1943 Dahl wrote his first story for children titled: "The Gremlins." This story was also intended for Walt Disney, who was interested in turning it into a film. This was Roald Dahl's first children's book published, though it was originally not written as such.

**Who is Roald Dahl's son?** Dahl's son Theo had developed hydrocephalus after being hit by a taxi, aged four months.

**What happened to Roald Dahl as a child?** Sadly, Roald's sister and father died in 1920 when he was just 3 years old, meaning he was raised alone by his mother in Wales. Roald Dahl spent the first years of his childhood and early life in Cardiff, attending The Cathedral School in Llandaff. However, both of his parents had wanted him to have the best education.

**What were Roald Dahl's last words?** What were Roald Dahl's last words? Roald Dahl's last sentence was said to his daughter, Ophelia, in John Radcliffe Hospital in Oxford. He woke up from a sleep and said to Ophelia: "You know, I'm not frightened. It's just that I will miss you all so much." But he had one more surprise in store for them.

**When did Roald get divorced?** Dahl met his second wife Felicity in 1972, and soon after his divorce to Neal in 1983 the couple married. Their marriage would last just seven years, until his death in 1990.

**What did Roald Dahl invent?** The Wade-Dahl-Till (WDT) valve is a cerebral shunt developed in 1962 by hydraulic engineer Stanley Wade, author Roald Dahl, and neurosurgeon Kenneth Till. In 1960, Dahl's son Theo developed hydrocephalus after being struck by a taxicab. A standard Holter shunt was installed to drain excess fluid from his brain.

**What was Roald Dahl's last book?** Billy and the Minpins, originally published in 1991, is the last book to be written by Dahl. Its new edition has been illustrated by Sir Quentin Blake, who collaborated with Dahl for classics, such as Charlie and the Chocolate Factory, Matilda and The BFG.

**Why is The Kiss controversial?** Reception. Klimt painted The Kiss soon after his three-part Vienna Ceiling series, which created a scandal and were criticized as both "pornographic" and evidence of "perverted excess". The works had recast the artist as an enfant terrible for his anti-authoritarian and anti-popularist views on art.

**Was kiss ever in a movie?** Kiss Meets the Phantom of the Park (also known as Attack of the Phantoms in Europe and Kiss Phantoms in Italy) is a 1978 American television film starring American hard rock band Kiss and produced by Hanna-Barbera Productions.

**Why is The Kiss painting so famous?** Klimt creates the image of a perfect union between man and woman with both merging together. Here, man and woman connect with the earth and the cosmos, guided by the power holding everything together: love.

**What was kiss original name?** Early 1970s - KISS traces its roots to Wicked Lester, a New York-based rock and roll band led by co-founders Gene Simmons and Paul Stanley.

**What was kiss inspired by?** Inspired by energetic shock rock artists such as Alice Cooper and cult works of American horror and science fiction, they had their biggest commercial success in the 70s, influencing many later arena rock and heavy metal artists. They continue to play to a massive fan-base known as the 'Kiss Army'.

**Who sang Kiss originally?** "Kiss" is a song composed, written, and produced by American musician Prince.

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**What did Roald Dahl suffer from?** Dahl believed his creative genius followed his own head injury, when he nearly died when his fighter plane went down in World War II (Dahl was a pilot). He was intrigued by all manner of neurological conditions and spent time supporting both adults and children's neurology and neurosurgery services.

**What is Roald Dahl's most famous story?** Charlie and the Chocolate Factory. The story of Charlie Bucket and his golden ticket to Willy Wonka's Chocolate Factory is perhaps Roald Dahl's most famous work. When five golden tickets are hidden inside chocolate bars all over the world it seems very unlikely that poor Charlie Bucket will ever find one.

**What happened to Roald Dahl's children?** In 1962 their eldest daughter, Olivia, would die of measles aged 7. Roald was deeply affected by Olivia's death and would dedicate his books James and the Giant Peach and The BFG to her. Roald would later become a pro-vaccination advocate and wrote a pamphlet in 1988 called Measles, a Dangerous Illness.

**Why did Roald Dahl write Matilda?** Dahl's inspiration On Matilda's love of reading books, Lucy Dahl stated that her father's novel was, in part, about his love for books: "I think that there was a deep genuine fear within his heart that books were going to go away and he wanted to write about it."

**Who was Roald Dahl spying for?** It may have been around this time that Dahl was recruited as an undercover agent by the British Security Coordination (BSC), a covert espionage network established in the spring of 1940 by Britain's MI6 intelligence service to spy on its greatest ally—the United States.

**Who did Roald Dahl live with as a child?** He was born in Llandaff, South Wales to Norwegian parents on 13 September 1916, but in 1920, first his older sister Astri, then his father Harald died, leaving his mother Sofie to raise Roald and his sisters alone. Rather than returning to her family in Norway, Sofie chose to remain in Wales.

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