

# Ancient irrigation systems of the aral sea area the history origin and develo

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**How was the Aral Sea impacted by irrigation?** Formerly the fourth largest lake in the world, the Aral Sea began shrinking in the 1960s after the rivers that fed it were diverted for irrigation. By 1997, the Aral Sea had shrunk to 10% of its original size and by 2014 satellite images from NASA showed that the eastern basin of the Aral Sea had completely dried up.

**Which ancient civilization invented the irrigation system?** The earliest known systems of irrigation originated in Egypt and Mesopotamia in 6,000 B.C. Fighting against the flooding of the Nile several months each year, ancient civilizations pioneered a technique to divert flood waters to nearby crop fields, thereby utilizing excess flood water for crops that would otherwise be ...

**What were the ancient irrigation systems in Mesopotamia?** The water for irrigation was brought to the fields by canals. The largest of these were fed directly from the rivers and supplied water to smaller canals which supplied yet smaller channels, all the way down to small irrigation ditches.

**What was the irrigation system in ancient India?** Irrigation Development in India Vedas, Ancient Indian writers and ancient Indian scriptures have made references to wells, canals, tanks and dams. These irrigation technologies were in the form of small and minor works, which could be operated by small households to irrigate small patches of land.

**What are three negative effects that the Aral Sea experienced?**

**Why is the Aral Sea dying?** The world's fourth largest lake in 1960, the Aral Sea has already shrunk to half its former size - a result of unsustainable cotton cultivation that began less than 40 years ago. But though the sea itself can no longer be saved, its toxic salt plains have paradoxically given rise to a new spirit in the region.

**Which is the oldest method of irrigation?** Water wheels are the oldest way of irrigation. This method of irrigation uses a lot of earthen pots attached to a rope that goes around a wheel. The rope is tied to bulls which then help to draw underground water.

**How did irrigation change the world?** By allowing farmers to grow crops on a consistent schedule, irrigation also creates more reliable food supplies. Ancient civilizations in many parts of the world practiced irrigation. In fact, civilization would probably not be possible without some form of irrigation.

**Who invented agriculture and irrigation?** The earliest archeological evidence of irrigation in farming dates to about 6000 B.C. in the Middle East's Jordan Valley (1). It is widely believed that irrigation was being practiced in Egypt at about the same time (6), and the earliest pictorial representation of irrigation is from Egypt around 3100 B.C. (1).

**What was agriculture in Mesopotamia?** According to the British Museum, early Mesopotamian farmers' main crops were barley and wheat. But they also created gardens shaded by date palms, where they cultivated a wide variety of crops including beans, peas, lentils, cucumbers, leeks, lettuce and garlic, as well as fruit such as grapes, apples, melons and figs.

**Why is irrigation important?** Water applied as irrigation allows for crop production in arid regions and supplements soil moisture in humid regions when growing season precipitation is insufficient. Irrigation has enhanced both the productivity and profitability of the agricultural sector.

**What was the problem with the water in Mesopotamia?** The agricultural revolution allowed the overuse and erosion of soil as more and more land was irrigated. The inefficient use of the land and the growing Mesopotamian population depleted the water supply. The agricultural revolution significantly contributed to the

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rise of conflict in order to secure water resources.

**What is the history and development of irrigation in India?** History of Sources of Irrigation in India The Indus Valley Civilization, in particular, developed an extensive network of canals and water management systems. During the medieval period, various kingdoms and empires, such as the Mauryas, Guptas, and Mughals, contributed to the development of irrigation infrastructure.

**What was the irrigation system in ancient Persia?** Throughout the arid regions of Iran, agricultural and permanent settlements are supported by the ancient qanat system of tapping alluvial aquifers at the heads of valleys and conducting the water along underground tunnels by gravity, often over many kilometres.

**Which is the first most important source of irrigation in India?** -Tubewells account for 46 percent of the irrigation in India. Whereas canals account for 24 percent of the total irrigation in India and tanks account for only 3 percent of the total irrigation in India.

**How did irrigation affect the Aral Sea?** The diversion of water from the Syr Darya for irrigation contributed to the shrinkage of the Aral Sea in the latter part of the 20th century. By the 1990s the flow of the Syr Darya along its lower reaches was much reduced during the whole year.

**Why is the Aral Sea important?** Earlier, the Aral Sea acted as a climate regulator for the region: it softened cold Siberian winds in winters and acted as a conditioner lowering heat in summer months. The sea's shrinkage has resulted in drier and shorter summers, and in longer and colder winters.

**What was the Aral Sea like before the problem?** Until a few decades ago, the Aral Sea (salt lake of oceanic origin), was the fourth largest lake (sea) in the planet's surface. Today, the Aral Sea has reduced its surface area by 75%, and in only a little more than 10% of water is visible through satellites, while the remaining 90% is all sand.

**Who is to blame for the Aral Sea?** Restoration Efforts. After the collapse of the Soviet Union in 1991, Kyrgyzstan, Uzbekistan, Turkmenistan, Kazakhstan and Tajikistan, the new states of the region, assumed the responsibility for the Aral

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situation.

**Is the Aral Sea coming back?** Sort of. The Aral Sea as a whole will never completely recover. The shoreline has radically changed, and the South Aral Sea remains almost completely desiccated.

**How did humans affect the Aral Sea?** The Aral Sea was once the world's fourth-largest lake, but an irrigation project drained nearly all the water. The consequences include the loss of a fishing industry, salt-laden dust affecting crops and human health, and an altered climate.

**Why were the rivers that fed into the Aral Sea redirected into irrigation canals?** The Soviet government decided in the 1960s to divert those rivers so that they could irrigate the desert region surrounding the Sea in order to favor agriculture rather than supply the Aral Sea basin.

**What year did irrigation start reducing the flow of water into the Aral Sea?** Beginning about 1960, the Aral Sea's water level was systematically and drastically reduced, because of the diversion of water from the Amu Darya and Syr Darya rivers for purposes of agricultural irrigation.

**What happened to the Aral Sea once it began to be used to irrigate cotton and rice fields?** As the Aral Sea has dried up, fisheries and the communities that depended on them collapsed. The increasingly salty water became polluted with fertilizer and pesticides. The blowing dust from the exposed lakebed, contaminated with agricultural chemicals, became a public health hazard.

**What was the reason humans impacted the Aral Sea?** The diversion of water from the Amu Darya for irrigation decreased the amount of water entering the Aral Sea, which consequently began shrinking. Increased irrigation on the hot, dry floodplains of the Amu Darya and in adjacent regions resulted in evaporation that left salt deposits that make the soil infertile.

## **The Washington Internship Survival Guide.**

Landing a Washington internship is a major accomplishment, but it can also be a daunting experience. Here are some frequently asked questions and answers to help you survive and thrive in the nation's capital.

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**Q: What should I expect in terms of workload and hours** **A:** Internships in Washington are typically demanding, with long hours and a heavy workload. Be prepared to work hard and stay late, especially during busy periods like legislative sessions or major events.

**Q: How can I make the most of my internship?** **A:** Take initiative, ask questions, and be proactive in seeking out opportunities to learn and contribute. Network with colleagues, attend industry events, and make the most of your time in Washington.

**Q: What are the best ways to build my professional network?** **A:** Attend professional development events, join industry associations, and reach out to people in your field. Be professional and respectful in all interactions, and don't be afraid to ask for advice and mentorship.

**Q: How can I manage the cost of living in Washington?** **A:** Washington is an expensive city, so it's important to budget carefully. Consider sharing housing with other interns, exploring discounts and free activities, and taking advantage of public transportation.

**Q: What should I do if I encounter challenges during my internship?** **A:** Don't be afraid to reach out to your supervisor, HR, or other mentors for support. They can provide guidance, feedback, and help you navigate any difficulties that arise.

In conclusion, a Washington internship can be an incredibly rewarding experience, but it requires preparation and resilience. By following these tips, you can maximize your learning, build your professional network, and make the most of your time in the nation's capital.

## Science Crossword Puzzle with Answers

### Across

1. A mixture of two or more elements that cannot be chemically separated (6 letters) **COMPOUND**
2. The smallest unit of an element that can exist (4 letters) **ATOM**
3. A form of energy that can travel through space (6 letters) **LIGHT**
4. The force that pulls objects towards each other (5 letters) **GRAVITY**

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### Down

1. A substance that allows electricity to flow through it (6 letters) **CONDUCTOR**
2. The process by which plants use sunlight to make food (9 letters)  
**PHOTOSYNTHESIS**
3. A type of rock that has been melted and then cooled (5 letters) **LAVA**
4. A device that measures temperature (8 letters) **THERMOMETER**

### Answers:

### Across

1. COMPOUND
2. ATOM
3. LIGHT
4. GRAVITY

### Down

1. CONDUCTOR
2. PHOTOSYNTHESIS
3. LAVA
4. THERMOMETER

## Starters, Alternators, and Spare Parts from Bosch: Questions and Answers

### What is Bosch's reputation in the automotive industry?

Bosch is a renowned global leader in automotive technology and innovation, with a rich history of over 100 years. Their products are highly respected for their quality, reliability, and superior performance.

### What is the range of starters and alternators offered by Bosch?

Bosch provides an extensive range of starters and alternators to cater to a wide variety of vehicles. Their starters are known for their high cranking power, while their alternators ensure efficient charging of the battery and electrical systems.

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### What makes Bosch spare parts stand out?

Bosch spare parts are precision-engineered to match the exact specifications of the original equipment. They are crafted using premium materials and undergo rigorous testing to ensure durability and performance that meets the same high standards as the original components.

### **How can I find the right starter, alternator, or spare part for my vehicle?**

Bosch offers a comprehensive online catalog that allows you to easily search for the right part based on your vehicle's year, make, and model. Alternatively, you can consult with an authorized Bosch distributor or automotive workshop for expert guidance.

### **Where can I purchase Bosch starters, alternators, and spare parts?**

Bosch products are widely available through authorized distributors, auto parts retailers, and automotive repair centers. You can also find them online through reputable marketplaces and e-commerce platforms.

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