

Assessing irrigation methods in national relation

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My goal throughout this thesis was to brush upon the different factors and changes which influenced European, but mostly the Hungarian development of irrigation. I examined the differences between the different European climate zones, their irrigational unquities, and their varying histories. I then proceeded to list all of the legislative bodies which play an important role in designing the laws and system of rules for irrigation in the EU. We can ascertain that all through the years countless organizations were created to protect our waters, and to decide how to utilize the resources that we still possess in an effective and sustainable manner.

I studied the development of irrigation from numerous sources, going back all the way to ancient times, then eventually moving on to its emergence and evolution in Hungary. I delved into the methods and techniques that characterized the different eras, their progression through history, the changes that they went through. I deduced that the major changes came as a result of wartime or periods of drought, and I observed how different irrigation methods adapted from separate cultures were first implemented, then how they became an integral part of the country's irrigation. The role of the local nobility, scientists and politicians is undeniable, whose visions shaped the constant and dynamic improvement of the nation's irrigation plan during the decades.

I also perceived that the state had, and still has an all important role in using their legislative capabilities to shape the direction of change, whether it be negative or positive.

Arriving to our times, I enumerated the methods which are still in use to this day. Furthermore, I inspected what technology and machinery was used in aid of ameliorating the efficacy and simplicity of irrigation systems, and their precise benefits and drawbacks.

Toward the latter part of my thesis, I pondered upon, then dissected the problems and issues that the future may hold. The conclusion that I drew from the wide variety of studies I read was that irrigation is absolutely vital in the conservation of our society, since a rapidly growing population in turn requires a rapid growth of agricultural yield. We must push ourselves to utilize our modern methods in the most efficient way possible, while supporting our farmers in the best way possible.

I find that using the natural resources at our disposal is of utmost importance. By this I mean, for instance, satisfying our irrigation needs efficiently, or even using storing rainwater in containers for later use. It is critical that we, as a species, learn how to adapt to the situation generated by climate change, like sudden increase in temperature, low and uneven precipitation, and from this, drought periods that last longer than before.

In my opinion, the most that we can do is to preserve our already vanishing water sources, on the level of the individual, on an industrial level, and on a state level all around. Using the knowledge that the human race has accumulated throughout the centuries, paired with the cutting edge technology of the 21st century, we must prepare for the difficult times that lie ahead, and ensure stable food safety for the generations to come in our ever changing world.