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alternative irrigation sources can offer significant water

May 8th, 2020 - the 23 on farm storage systems that were checked saved 6347 acre feet of groundwater by utilizing irrigation return flows and storm runoff the greatest percentage of water stored and used was winter runoff these systems ranged in age from one to four irrigation seasons rodrigue says it was the first nrcs water systems survey'

'treating and recycling irrigation runoff ornamental

June 2nd, 2020 - treating and recycling irrigation runoff the potential contamination of surface and groundwater from runoff presents a major challenge for the greenhouse industry growers rely heavily on

the use of fertilizers and pesticides as well as water to produce quality crops'

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'study may improve strategies for reducing nutrient runoff

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'oilfield produced water an alternative source for crop

May 31st, 2020 - agriculture and oil are two of the biggest industries in kern

county and one major place they intersect is water at an event on the california state university bakersfield csub campus local and visiting scientists waded deep into the topic of oilfield produced water and crops the alternative irrigation water workshop held feb 7 2020 was a joint effort by csub duke university'

'land amp water food and agriculture organization of the

March 14th, 2020 - solar technologies as an opportunity not a liability for water resourcesthe promise of solar desalinisation solar technology as an alternative in irrigation modernization in spain raquel bravo rubio irrigation expert ministry of agriculture food and environment of spain" **alternative**

irrigation the promise of runoff agriculture

*May 26th, 2020 - alternative irrigation the promise of runoff agriculture
christopher j barrow runoff agriculture uses surface and subsurface water
which is often otherwise overlooked and wasted it enables small farmers as
well as mercial agriculturalists to improve yields and security of*

'agricultural risks from changing snowmelt nature climate

*June 1st, 2020 - share of annual average irrigation surface water
consumption 1985 2015 met by a snowmelt runoff b rainfall runoff and c
alternative sources for example water stored in reservoirs and'*

'books resources rainwaterharvesting

May 29th, 2020 - water resources management institutions and irrigation development in india a vaidyanathan 1999 oxford university press new delhi pp 271 rs 595 alternative irrigation the promise of runoff agriculture christopher j barrow 1999 earthscan publications limited london pp 172 october 1999 pillar of sand can the irrigation miracle last'

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agriculture a form of agricultural irrigation this text describes how the use of surface a'

'types of irrigation in agriculture and farming kisan central

June 3rd, 2020 - types of irrigation in many areas the amount and timing of rainfall are not adequate to meet the moisture requirement of the crops hence irrigation is essential scientific management of irrigation water provides best insurance against weather induced fluctuations in total food production'

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volume 13 8 nov 1 2001"farmers fight environmental regulations npr
May 30th, 2020 - the leading problems are driven by fertilizer and
manure runoff from farm operations says cox who is the
environmental working group s top expert on agriculture" *the sources
and solutions agriculture nutrient***

*May 30th, 2020 - doing so can help to reduce erosion runoff and soil
paction and therefore the chance of nutrients reaching waterways 7*

managing livestock access to streams farmers and ranchers can install fence along streams rivers and lakes to block access from animals to help restore stream banks and prevent excess nutrients from entering the water

8'

'the adaptation and mitigation potential of traditional

*May 11th, 2020 - observations of agricultural performance after extreme climatic events in the last two decades have revealed that resiliency to climate disasters is closely linked to the high level of on farm biodiversity a typical feature of traditional farming systems barrow cj 1999 alternative irrigation the promise of runoff agriculture earthscan"***protecting water**

quality agricultural runoff

May 15th, 2020 - protecting water quality epa 841 f 05 001 clean water is everybody's business the united states has more than 330 million acres of agricultural land that produce an abundant supply of food and other products american agriculture is noted worldwide for its high productivity quality and efficiency in delivering goods to the consumer'

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'how to prevent agricultural runoff boombacksboombacks

June 3rd, 2020 - agricultural runoff is the flow of water that occurs when farm irrigation systems apply more water than the ground can absorb excessive irrigation can affect water quality by causing erosion transporting nutrients pesticides and heavy metals'

'ten low tech ways to irrigate crops engineering for change

June 3rd, 2020 - but even with that potential 80 percent of farmland worldwide is not irrigated says the un food and agriculture organization part of the problem may be the high cost of irrigation equipment also the prospect of wasteful irrigation techniques raises the specter of environmental damage including water shortages

erosion and soil salinization'

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christopher j barrow spate wetlands and flood agriculture 5 indigenous
runoff agriculture challenges and breakdown 6 expanding upgrading and
rehabilitating runoff agriculture 7'

'damaging consequences of agricultural runoff greentumble

**June 1st, 2020 - agricultural runoff happens when agricultural
activities are not well managed poorly managed animal feeding**

operations overgrazing excessive plowing and other ways of overworking the land as well as poorly managed water irrigation and inefficient application of pesticides and fertilizers are all recorded causes 2'

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agricultural irrigation this text describes how the use of surface and
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farmers and mercial agriculturists to improve yields and the security of harvest even in harsh and remote environments" *alternative irrigation the promise of runoff agriculture*

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'environmental amp agricultural potential hazelnuts

June 2nd, 2020 - the promise of sustainable agriculture environmental amp agricultural benefits learn how hazelnuts require less water sequester more carbon and reduce soil erosion and nitrogen pollution

one of the most exciting aspects of hybrid hazelnut production is their potential environmental benefits as an agriculture crop" *the future for runoff agriculture alternative irrigation*

May 20th, 2020 - the future for runoff agriculture there have been attempts to predict the future for runoff agriculture and swc see jeffords 1987 anon 1996a special issue towards the next 50 years journal of soil amp water conservation vol 51 no 5 especially pp444 448'

'runoff irrigation a viable technology global ecology

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paperback price 15 95 isbn 1 853 82496 3 for the last 50 years
irrigation has been at the centre of agricultural development initiatives
however petition for freshwater resources'**

'agriculture arizona department of water resources

June 1st, 2020 - agriculture irrigated agriculture is the largest user of water in arizona consuming about 74 percent of the available water supply in the past this percentage was as high as 90 percent reductions have been the

result of both urbanization of agricultural lands and heavy investment by the irrigated agriculture industry in conservation measures both on farm and in delivery systems'

'water harvesting in agriculture runoff farming

*June 1st, 2020 - practised water harvesting is a directly productive form of soil and water conservation both yields and reliability of production can be significantly improved with this method water harvesting wh can be considered as a rudimentary form of irrigation in some areas water harvesting for agriculture is called runoff farming"***reducing runoff from**

irrigated lands causes and

May 31st, 2020 - causes and management of runoff from surface irrigation in orchards lawrence j schwankl uc cooperative extension irrigation specialist blaine r hanson uc cooperative extension irrigation and drainage specialist and terry l prichard uc cooperative extension water management specialist introduction the california state water code requires anyone discharging waste that could affect the'

'what is runoff in irrigation answersdrive

May 10th, 2020 - runoff can be described as the part of the water cycle that

flows over land as surface water instead of being absorbed into groundwater or evaporating runoff is that part of the precipitation snow melt or irrigation water that appears in uncontrolled surface streams rivers drains or sewers'

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September 13th, 2018 - alternative irrigation the promise of runoff agriculture by christopher barrow london earthscan 1999 pp 240 40 00 h bk 15 95 p bk'

'what is agricultural runoff busch systems

June 3rd, 2020 - agricultural runoff is water from farm fields due to irrigation rain or melted snow that flows over the earth that can absorb into the ground enter bodies of waters or evaporate this runoff can contain pesticides sediment soil particles nutrients phosphorus nitrogen and potassium from fertilizers and metals which can contaminate'

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20052005"changes in snowmelt threaten farmers in western us

June 1st, 2020 - farmers in parts of the western united states who rely on snowmelt to help irrigate their crops will be among the hardest hit in the world by climate change a new study reveals'

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'wrc research report recycling agricultural runoff

May 22nd, 2020 - recycling agricultural runoff the recycling agricultural runoff concept is the storage of excess water from agricultural land and using this water for irrigation of the same land when moisture supplies are low coincidentally the system also recycles pesticides and nutrients keeping them out of other parts of the environment'

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June 2nd, 2020 - in kenya sub surface groundwater dams are constructed at a rapid pace to store water for livestock irrigation and domestic use the basic principle of such dams is that water is stored sub'

'california regulation of agricultural runoff

June 1st, 2020 - california regulation of agricultural runoff isaac cheng and alicia thesing and vegetables but this es at a cost agriculture is the primary source of water pollution with irrigation and rainfall sweeping excess fertilizers and pesticides off the fields into adjoining waters and over time leaching into groundwater birth defects'

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May 31st, 2020 - an introduction to runoff agriculture a form of agricultural irrigation this text describes how the use of surface and subsurface water

often overlooked and wasted enables both small farmers and commercial agriculturists to improve yields and the security of harvest even in harsh and remote environments'

'alternative irrigation the promise of runoff agriculture

April 2nd, 2020 - alternative irrigation the promise of runoff agriculture soil and water conservation swc is examined focusing on its value for runoff agriculture ra'

'the problem of runoff pesticide environmental stewardship

June 2nd, 2020 - runoff is the movement of water and any contaminants

across the soil surface it occurs when irrigation rain or snow melt adds water to a surface faster than it can enter the soil water running off the land towards canals streams rivers and lakes can also move chemicals such as pesticides and fertilizers'

'new farming strategies can help prevent soil runoff while

June 3rd, 2020 - soil and nutrient loss and runoff from agricultural fields are major problems environmentally and economically in the u s and globally after heavy spring rains soil and water runoff containing'

'nebraska irrigation center pivot ponents

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May 31st, 2020 - water discharges from agricultural operations in
california include irrigation runoff flows from tile drains and storm
water runoff these discharges can affect water quality by transporting**

pollutants including pesticides sediment nutrients salts including selenium and boron pathogens and heavy metals from cultivated fields into"

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