CITRUS HILLS

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The first time I saw one of our rivers act like a river was when my buddy Chuck Shearn, in the summer of 1980, took me fishing on the east side along a stretch of the Kings far enough upstream that the snowmelt rise fled over big boulders and knocked you off your feet if you got heedless. A ways down, the flow answered wholly to agriculture and the water became something else. Here it belonged only to the Kings. Spending an afternoon in its full presence, I didn't catch a thing except for a memory. The road was crooked past Centerville, where Mark Twain's nephew, a journalist grown tired of words, once tried to start a water war by blowing up a rival's brush-and-rock dam. Had Chuck and I ventured a little farther east, we would have come upon a gap in the two hills that separated Reedley from Sanger, two rivals in high school football, and landed in the thermal belt, where citrus groves were stitched into hillsides.

I once heard that more millionaires per capita lived in Exeter, the small east side town that belonged to the Emperor grape before it belonged to the navel orange, than any other place in America. I puzzled over how that was possible until I came to understand that 40 acres of oranges and lemons could send four kids to college and 80 acres of oranges and lemons, if the citrus crop failed in Florida, could make a man believe he was rich, and 160 acres could actually turn him into one of those millionaires in Exeter. On the west side, 160 acres was hardly enough to bury a man. And so the east side had its own economy of enough to bury a man. And so the east side had its own economy of escale, where farms stayed small, and the children of the white growers went to school with the children of the Mexican farmworkers, and they went to school with the children of the Mexican farmworkers, and they

helped that three rivers, the Kings, Kaweah and Tule, ran through the helped that three rivers of the San Joaquin came in on the haunches of the land, and the waters of the deeal canal. Even so, when drought stuck around, the east side was no federal canal. Even hard times than the riverless west side, more immune from hard times than the riverless west side.

The citrus belt sits above the valley floor on a ledge of granite that The citrus belt sits above the valley floor on a ledge of granite that an hold only so much snowmelt. By gravity, most of the runoff flows down the slope and filters through the east side and settles in the center valley, thirty miles away. The aquifer's depth on the east side is so ter valley, thirty miles away. The aquifer's depth on the east side is so that small quantity of water can be stored in its crevices. The pockets only a small quantity of water can be stored in its crevices. The pockets of water that exist inside the rock have become so depleted that some of water that sat at twenty feet deep before the drought now sits pumps. Water that sat at twenty feet deep before the drought now sits pumps. Water that sat at twenty feet deep before the drought now sits pumps. To reduce an orchard's thirst, some growers have the past three years. To reduce an orchard's thirst, some growers have pruned back their trees so severely that from roadside they appear to be shrubs. Others have ripped out their orchards altogether, replacing be shrubs. Others have ripped out their orchards altogether, replacing



Citrus groves along the San Joaquin Valley's east side

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of Tulare County. They dug into hard mineral earth to find water. They blond, square-jawed young men from Pasadena, sons of bankers, and orange culture and a culture and the standard and the stand Since 1912. That was the year Stanley Munn rode up with a gang of lall really a mountain, where the Munn family has been growing cling enough oats and grain to raise their Berkshire hogs. They waited four gation pipes. They built sheds with no interior walls to live in and gree tree. They mined sand from Sand Creek to fabricate their concrete in dynamite into the hardpan to blow open enough earth to plant each transplanted the Southern California orange culture into the ground Sunkist, which had followed in their tracks. years for the trees to hang their first oranges and packed the fruit with Nursery, down near Los Angeles. They dropped sticks of Herolls found it at ten feet deep. They trucked in baby navels from the response of the state of the sta I've landed on a knoll the other side of Curtis Mountain, which into

going on ninety-five years. two," he tells me. "That's three inches taller than my father was. And I'm stuff that he credits for giving the Munn family tree a jolt. "I'm six foot and through the rocks in his hillside, its picks up minerals and other water he's drunk all his life. As snowmelt percolates down the Siern proud to say that the water his father fed to those trees is the sune in front of me by Reed Munn, born and raised in this citrus belt, who's The photos of that conquering have been laid out on the coffee table

and not one is a farmer. Among them are an actress in New York downslope of Curtis Mountain. Reed Munn has eight grandchildren at the bottom of the knoll and another forty acres a field away on the est son, Andrew, who's sitting on the other side, farms the forty across tion District, one of the contractors of Friant-Kern water. His young Dana, who's siting on one side of him, runs the Shafter-Wasco Irrigiboys and two girls, who graduated from UC Davis, too. His second son. of California at Davis before the Second World War and raised three wedding tux to celebrate their anniversary. They met at the University intact, he splashes a little red wine into his daily glass of Pom juice Before his wife, Ann, died a few years ago, he was able to fit into his from neighbor kids when he was impressionable. To keep his memory came to talk in a Missouri drawl, other than he must have picked it up took from his Scottish side. He can't explain how a native Californian He's a handsome man with a full head of gray hair and blue eyes he

> school with says Andrew, who at six foot five is Exhibit A for the siming Munns, says Andrew, who at six foot five is Exhibit A for the faulure and a civil engineer. "You're looking at the last of the school leacher and a civil engineer, who at six foot five is not in the last of the school leacher says Andrew, who at six foot five is not in the last of the school leacher and a civil engineer." financier in Connecticut, a biomedical engineer, a microbrewer, a high financier in Connecticut, a biomedical engineer. "You're looking at the land a civil engineer."

wonders of the local water. ajack pump, goes back to his father's time. Even in the worst drought, ber turbine pumps didn't care if the water table was low or high; they mbandy. It moved a lot of water when the water was easy to fetch. The unded to get it drowned. That was when the centrifugal pump came the jack pump was able to pull up water. In wet years, its nose for water memorial. The good pumps served him fifteen years. The oldest one, monument to the fallen. As another one goes kaput, he adds it to the the from the centrifugal era to the turbine era, he lines the driveway lealing up to his redwood house with every spent pump. It's kind of a if going. The pumps drawing up that water cease only when they by cracks in the earth to capture enough snowmelt to keep his aquiposoning the roots. Most years, though, he's been able to depend on Red had to walk buckets of water upslope to keep the alkali from Insurance to thirst, though they've come close. One dry year, single citrus tree to thirst, though they've come close. One dry year, In a century scarred by seven droughts, the Munns have never lost

means less pumping, which lets the water table recharge in wetter years. wher water from the ground. The blend is easier on the trees. It also kept working. mury of mixing fresh snowmelt from the San Joaquin River with the from the Central Valley Project and nothing else. Son Andrew has the nu belt don't have groundwater to call on. They've got surface water Reed considers himself lucky because a lot of growers along the cit-

part to add to the hurt." coning the east side that water. But there's some miscalculation on our rate has come out of it for two years. There's some politics involved in "There's a CVP turnout right where you drove in," Reed says. "No

What do you mean?" I ask,

grundwater. But they put in trees because they thought they could mays get federal water from the canal." Somuch of this citrus belt doesn't have groundwater. It's never had You mean your neighbors?"

ne considers the entire hillside, his family's eighty acres included, to he nds. He doesn't want to come off sounding superior, because

be more or else an experiment, a gamble against the odds of drought freeze and pestilence. "That's where it's going to come in rough for

"This is even worse than 1976," Dana says. "We're not built for dry

on dry on dry. Another dry year and this will be the Cadillac desert. green in spring and bleached in summer where the only crop had been was one of the more gorgeous spots in all California, a huddle of knolls orchards painted gold with oranges. Here was the mythical Southern dena in 1909 to visit an aunt. In every direction, he could see emerald Omaha, had wandered all over the country before arriving in Pasa wheat thrown out as seed and dry-farmed. Stanley Munn, a child of oranges a century ago on the easy hills that rolled out to the Sierra, I east who had married three times and divorced twice, adopted a black She was a remarkable woman, an abolitionist and spiritualist from back in the early 1870s by Eliza Tibbets, a settler of the Riverside Colony, parably fat and juicy and traced its lineage to a couple of trees planted California Eden. Every Washington navel kissed by the sun was incombefore migrating to California with her newest husband, Luther. The child and marched with Frederick Douglass for a woman's right to vote a variety of orange discovered in Brazil. He sent a few of its cuttings ington, D.C., who ran the test gardens for the USDA and was growing grow unique varieties of grains and citrus. Eliza had a friend in Wash Riverside Colony was, among other experiments, a farm looking to a dollar apiece, one year reaping twenty grand before Luther's eternal with dishwater. She and Luther sold more cuttings to other growers for out to California, and Eliza was able to keep them alive by irrigating lights with neighbors over water consumed their fortune. Reed Munn can understand his father, Stanley, wanting to plant

navels planted tens of thousands of acres across Southern California created the marketing machine called Sunkist, lured trainloads of East new class of gentility, in their fine suits and gowns, who earned four Coast émigrés dreaming of another kind of gold, and ensconced a dena wasn't named Orange Grove Boulevard for nothing. Mansions times the income of the average American. Millionaires' Row in Pasaas backdrop and a couple of palm trees thrown in for good measure. were set amid perfect lines of citrus with the San Gabriel Mountains The couple died penniless even as the clones of their Washington

> pusy, which took in the mountain and a mile beyond it." Coy, Katel, Hurrell and Dickey. Coy was my dad's uncle by marriage. ned to the railroad and were selling their fruit as part of the Lemon Red says. "They bought the Curtis Mountain Land and Cattle Com-Come Association. "The four businessmen from Pasadena were named By 1905, local citrus growers had dug a ditch and built a packinghouse lanous since 1877 on the knoll outside the nearby town of Lemon Cove. named James William Center Pogue had been growing oranges and important, a culture of men and women who knew how to wrest crops for the alkali had already planted their heels in the ground. A pioneer duen creeks ran down the mountain and through the east side. More Bun Gabriels to buffer against freeze, and three rivers and a half note But the Sierra did form a "thermal belt" like the one created by payur dime that made the Southern California orange second to that the future of Los Angeles lay in paving over its orchards. The San Ind Orange Cove, Porterville and Strathmore. They knew already The December "bourgeois utopia," in the words of historian Kevin Starr. Golden State's "bourgeois utopia," in the words of historian Kevin Starr. parture valley did not furnish the soft ocean breezes and mild Mediwho were looking to relocate that postcard image to Exeter the picture postcard that sold California to the world—the Sunley Munn was sent to Tulare County by clever businessmen in

ma was a different animal." ner crops. They didn't realize until they were in too deep that Califorare on the hillside and plain below. When the Great Depression samble, I'd say. These were people who were used to rainwater to raise and left the trees to wither. "It was tough ground. You only had so much struck they had no money to drill deeper wells. They just folded up out from Ohio, Kentucky and Tennessee and grabbed their own forty quier thin, they planted olives as a backup crop. Some years the olives sons and nephews to do the dirty work. Where soil ran salty and the trought home more money than the citrus. Dozens of families came nundwater," Reed says. "I wouldn't call it a land swindle exactly. A Their intention was to cover the hillside in oranges. They sent their

^{Reply}that Stanley Munn couldn't cover his packing charges. If he was rea. Dry farmers came in and planted grain again. The Munns survived recause they had groundwater. Still, the price for oranges dropped so The sky closed up in the early 1920s. Half the hillside turned bar-

going to make it, he had to find a way to pack his fruit on his one his fruit on his one his their oranges straight to the stores. To help his father, ten year all help his father. took on a partner and they started a little packing shed They delicated of all—the one that began in 1929 and kept going until 1934. The second and table scraps until it got 180 pounds big. Then the word draw drove a tractor and raised a Hampshire hog, feeding it grain and general transfer in the state of the state o

bunch of orchards into dust. Truth is, these farms were barely recognitions. by when Mother Nature delivered a final blow. What the banks and ter, a Spanish-American war vet who owned the drugstor in Euro leading the charge to find an outside source of water was fresh high elected to the state assembly and then the state senate at the same time. take back was now in the hands of the county tax collector. he was rising to become the grand master of the Masonic Order to Mixter wore rimless glasses and double-breasted suits and get home. to Senator Mixter as he helped advocate for a Central Valley Projects hydrological engineers who were Freemasons. They lent a patient of California. The U.S. Bureau of Reclamation was filled with crit and This time, the Freemasons decided to make noise. The main man

the same Central Valley Project. In the latter event, the orchards at have been planted on the promise of intermittent flood deliveries from water guaranteed by contracts. Tens of thousands of additional arm of thousands of acres have been planted on the pledge of actual fideral hill and in the opposite direction across the valley floor, beyond its Until this newest drought, the feds were able to keep the supply running protection of the thermal belt. From Orange Cove to Tera Bella to ons and mandarins extending out a little farther. They march up to year, from the perch on his knoll, Reed Munn can see the navek km in too much citrus, both inside and outside the irrigation district Each acre-feet a year for Orange Cove—through the decades. For a long time They delivered on average 80 percent of the contracted amount—39,200 depleted as it was in the 1920s. Some of this has to do with drought the water table was able to rebound and stabilize. Today, it's as ball return. Most of it, though, is a consequence of too much land planted The imported flow of the San Joaquin River began arriving in 1949

real, the water an illusion. The situation, it would seem, cannot be sustained. In the living total

dithe Munn household, it frames a remarkable exchange between There are an There going to get smacked by the There are marked by the planting citrus darn going to get smacked by the planting there going to get smacked by the same the there are the same there are the same than the same the They're going to get smacked by the next freeze and find an get em. They're going to get smacked by the next freeze and and swing these hills. I don't recognize this valley, Reed says.

I don't recognize these hills. I down to Frace.

use of the small guy overdeveloping the land," Andrew says. "It's

By big ranchers and the moneymen from who knows where. They buy Reed says. "I bought this ranch from a Japanese family who was Le plant dirus and get some hired gun to farm it for them. but his father, but his heart wasn't into farming. I had half the hill, One of his sons became a pharmacist. The other son wanted to stay and powing tomatoes on it. The father got into a car wreck and was killed. I see investors. And they've got no

and it made sense to buy the other half." tope for was a freeze in Florida," Dana says. "Now everyone is pulling Tremember when we were growing Valencias, and all Dad could

of Valencias as fast as they can and planting mandarins." min they're going to pump out the rest of our aquifer in a year or two." anught, Reed says. "They've put in these big pumps. If we don't get west side." more land consolidation with climate change. The small farmer who much as I hate saying it, we're going to end up looking more like the variability, It'll require deeper pockets to go deeper in the ground. As withese communities on the east side won't be able to ride out the 'My guess is the production out here has doubled since the last we'd better get used to it," Andrew says. "There's going to be even

gower in these poetic hills, there would be no worse fate. District, seventy miles away. The true flat desert. To the east side citrus The west side of the valley, he means. The giant Westlands Water

atron Its seeds have traveled across four thousand years and from a rd, who's been growing citrus for seventy-five years, has set aside a TESTERN HOSPITALITY," the sign says. This is where John Kirkpat-Recai place in the cold storage room for the prize of his harvest: the ame on a packing shed just beyond Woodlake; "A CITY WITH TRUE Treaty-five miles south of the Munns, deeper into the citrus belt, I

world away to find root in a small plot on his fifty-acre ranch up the don't know better, matures through summer and is ready to pick by off trees as a farmer can get, though Kirkpatrick isn't inclined to boast grower, is a modest man. And he's been sworn to secrecy by "the rabbis in New Jersey," as he affectionately calls his partners.

No fruit is more venerated by Orthodox Jews than the citron, known in Hebrew as the *ethtrog*. Bronze coins from the Jewish uprising against Rome in the first century were embossed with an image of the tree. The perfumed fruit finds its way into the homes of devout Jews across the globe during Sukkoth, the feast that comes on the heels of Yom Kippur and marks the desert wandering of the Exodus. The million and In fact, they're rarely ever eaten. The fruit is one of the four species—along with the date palm's frond and the branches of the myrtle and the festival. The *ethrog* represents the "heart of man," and as a symbol of faith, repentance, healing and redemption, that heart must be free of any blemish or it never makes it out of the field.

a load of diamonds," Kirkpatrick says outside the cold storage room going through my head. In a good year, the multiplication works out to to chill. The old citrus farmer in his fedora and Levi's can see the math ornamented by Hebrew scripture where this year's haul will soon come moment of perfect demand, that it sold for two thousand dollars. "It's beautiful ones with stems intact can fetch up to eighty dollars apiece don't see the blemish and cast aside the fruit, the rabbis will. Imperfec Once, and only once, he was graced with a specimen so perfect, at a Kirkpatrick will box and send to market—a dozen wooden pallets—the tion can be as tiny as a flyspeck. Of the twenty thousand pieces of fruit of ten of his citrons never pass muster. If Kirkpatrick or his son, Greg bearded man from back east draped in woolen prayer shawls. Eight out to be a five-acre plot—is visited four times a year by one or another Morocco. Kirkpatrick's three-acre plot on the outskirts of Exeter—soon experts of kosher law dispatched to the orchards of Israel, Italy and From winter to summer, the fruit is fussed over by rabbis and other



John Kirkpatrick checks for flaws in his prized citrons.

more than a million dollars. Too bad it doesn't land in his bank account that way, he says. No fruit in the citrus belt, no fruit in the entire valley, for that matter, costs more to nurture. "Maybe only raising my children cost me more," he says.

He'd been growing oranges and olives since he was eleven years old, the Orthodox Jewish standards. Kirkpatrick, a sturdy man with a WTY WIL ing them? "Sure, it sounds intriguing," the farmer said. Weisberger truit for less money in New York. If he mailed out a packet of rabdollars apiece. His plan was to grow citrons in California and sell better perger was tired of buying imported ethrogs for twenty and thirty year-old yeshiva student from Brooklyn, got his phone number. Weisof citrus, drawing his water straight from the Kaweah River by virtue tomatoes, avocados, squash, freestone peaches and a dozen varieties Year his big brother went off to the Second World War. He had raised thought he had seen just about everything there was to see in farming warned him that the citron was not an easy fruit to grow according to binically blessed seeds from Israel would Kirkpatrick consider plantexercise in a particular kind of patience. he owned a piece of the river. The citron, however, turned out to be an of what farmers call pre-1914 irrigation rights, which essentially meant He's not sure how, back in 1980, Yisroel Weisberger, an eighteen-

He cleared a plot of land where he'd been growing avocados and

planted the seeds Weisberger sent him—seeds that traced back to ancient China. Eighty baby citrons sprouted. He watched them grow, were covered with nasty thorns, and their branches had to be stretched the rabbi explained, was designed to keep the limbs from lashing out would not go unnoticed. A year later, when the bushes set their first strapped by kosher dictates. He couldn't sell a single piece of fruit, at had to come from wood that was at least three years old.

After that third year, Kirkpatrick formed a joint venture with Weisberger and his brother-in-law. He would grow the citrons, and they'd sell them at a premium. To protect the fruit, he built a retractable shading out of wood, metal and cloth to minimize the harshest rays of sunshine and ward off winter frost. For almost forty years now, they've been partners. One year, 1999, the trees took the brunt of a big freeze and literally burned to the ground. He had to wait until the following spring for the bush to push up green again. It then took another year for the fruit to return. "Thank goodness the three-year law doesn't apply to trees coming back from frost or we would have had to throw that crop away," he says.

The citron harvest is as fussy as harvests get. He and his son, Gregalong with one farmhand, Jesus Serrano, a Seventh-Day Adventist who's been with him for thirty-eight years, are the only ones trusted to select the perfect specimens: twice the size of an egg, narrow at the top and broad at the bottom, bumpy but not grotesquely so. They don't yank the citrons off the limb. They gingerly snip them off, taking care to keep the stem intact and place each one into its own cushioned holder in a box. This way, the sixteen citrons in each box never get close enough to scar each other. He'll watch, a pained expression on his face, as the Orthodox grader makes one final call inside the cold storage room. "Almost anything the good eye can see qualifies as a blemish," he says. "A tiny scarring from a bug called thrips or a blister." It softens the blow a bit to know that the culls will be sent to a craft distiller in Alameda,

g George Spirits, where Kirkpatrick's citrons will infuse a high-end

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operating in Tulare County rests between harvests. Built in the 1930s, it once served the groves of Riverside and then followed the orange over that pack fifty bins. It couldn't fit his philosophy better: keep things gathering rust in a warehouse "like an old Cadillac." Its belts and rollers the Tehachapi Mountains to Lindcove, where Kirkpatrick discovered it a mandarins. Fruit that ships well, he sells through Sunkist. Fruit that war-lemons and citrons, pomegranates, tangelos and three varieties simple and small. He produces a steady stream of fruit throughout the pack two bins of fruit an hour compared to the big modern machines I'll be pomegranates and then mandarins. No rest for the wicked." cents into his pocket. "The beat goes on. Once we send off the citrons. like this one. From November to May, every lemon he picks puts forty me years he's been growing citrus, he has never seen a lemon market while, seeing if he can catch the market at peak price. In the seventy-Hes forever toying with the mix, pulling out old varieties, planting new doesn't ship well but tastes like sugar, he sends to farmers' markets. Across from the cold storage room, the oldest citrus packing line still

Ifirst met Kirkpatrick fifteen years ago at a book reading in Exeter. If so to know him over the years, he struck me as a different breed of grower. His middle-of-the-road politics was refreshing to find in a of grower. His middle-of-the-road politics was refreshing to find in a of grower. His middle-of-the-road politics was refreshing to find in a when his crop went south. Not even a freeze made him sour. He was a when his crop went south. Not even a freeze made him sour. He was a when his crop went south. Not even a freeze made him sour. He was a when his crop went south. Not even a freeze made him sour. He was a when his crop went south. Not even a freeze made him sour. He was a when his crop went south. Not even a freeze made hie soil that would grauline family farmer who was living out a life on the soil that would grauline family farmer who was living out a life on the sour. He was a when his crop was freeze when they marside farm country, and he brought her to the east side when they marside farm country, and he brought her to the east side when they marside farm they distributed by the once told grab lunch together. "She's a partner in everything I do," he once told grab lunch together. "She's a partner in everything I do," he once told grab lunch together. "She's a partner in everything I do," he once told grab lunch together. "She's a partner in everything I do," he once told grab lunch together. "She's a partner in everything I do," he once told grab lunch together. "She's a partner in everything I do," he once told grab lunch together. "Two of their me. "Every decision we make here, we make together." Two of their me. "Every decision we make here, we make together." Two of their me. "Every decision we make here, we make together." Two of their me. "Every decision we make here, we make together." Two of their me. "Every decision we make here, we make together." Two of their me. "Every decision we make here, we make together." Two of their me. "Every decision we make here, we make together." Two of th

As the drought dug in and the feds cut off water to the west side and the east side, I checked in with the Kirkpatricks to find out how the cit-

the paved bank of the Friant-Kern Canal to glimpse drought's disting rus belt was faring. Then I came up with the idea of taking a drive along a buddy of his. He called back to say that his friend would open the gale It just so happened that the ditch tender for the irrigation districts was I called up John wondering if he knew an easy way past the canal gate. and guide us down. "I told him you wanted to do some fishing," John

ahead and the Sierra just beyond, when he hits the brakes on his Ford open field studded with abandoned wells and their little wooden punp Explorer and pulls over to the side of the road. Out my window is a vag or Kaweah Rivers, but John says they're close by. This is the ground that houses beaten by a hundred years of weather. I can't see the St. John's Swamp that the Tulare Irrigation District and the Lindsay-Strathmore on the hill and alfalfa growers on the plain. "You're looking at the Great in a previous century brought about a war between the citrus growers head at the thought that men would fight for forty years, in and out of Irrigation District went to dynamite over," he says. He's shaking his water mining that took place here. "They made peace only because they court, to possess such a forlorn spit of earth and at the audacity of the wafer that got pumped out of here. It's dry as hell now." knew the Central Valley Project was coming. I hate to imagine all the We're only a few minutes into our drive, the foothills straight

ditch tender is waiting for us. The canal is not even two-thirds full, he at all. In a wet year, the canal delivers 1.7 million acre-feet. In a dry tion. It's nothing more than downstream storage to help out the dam their arrival to a snowfall four or five years ago. This being another says. If the molecules of water could tell their age, most would date The quiet and still are not an illusion. The water is scarcely moving and works on gravity alone. The only pumps out here are metered and then uphill, the Friant-Kern Canal drops a steady half foot every mile the aqueduct, which relies on hydraulics to send water downhill and year such as this one, it will be lucky to deliver 60,000 acre-feet. Unlike zero delivery" year, the canal has ceased to function as a giver of irnga belong to the irrigation districts and a handful of municipal users for By the time we reach the main gate of the Friant-Kern Canal, the

the purpose of taking that water. Those pumps are silent now. Even at drought's worst, the farmer does manage to receive some

> thould acre-feet leak out from the canal's bottom and recharge the mandered water from a whole universe of cracks in the concrete. aquifer. The windfall delights the adjacent farmers. Since the drought hand they began digging deeper beneath the earth for more groundwater, the farmers have created a giant sucking action. More canal of my own digging to know that the Bureau of Reclamation has no idea poor ditch tender isn't in a position to talk about it. I've done enough beneath the canal collapses. The sinking proceeds at a record pace. The water is being drawn through the cracks at the same time the ground the extent of the subsidence or what it's going to cost to repair the canal. is an astonishing figure, though no one in an official position wants it the canal at 4,000 cubic feet per second is now moving at 1,650. This has been reduced by as much as 60 percent. Water that moved down The canal's capacity to deliver water along one twenty-five-mile stretch attributed to them. The earth has sunk three feet, but it hasn't made the CITRUS HILLS

that reflects the heat of the sun and land upon a community of battered of a place. We pass rows of rotund citrus trees dusted white with a clay news. It will likely take a half billion dollars, if not more, to fix. of the poorest dots on the California map, a tiny rural settlement that once housed Dust Bowl Okies and now houses Dust Bowl Mexicans. trailers and shrunken shacks. Welcome to Tooleville, John says, one on the prowl. Where, I wonder, are the three hundred or so residents? boxes, snowflake lights never taken down since Christmas, Chihuahuas bedsheets for curtains, shells of cars, old tires piled high, rusted mail-Like the subways back east, the canal shoots you through the entrails It's not an easy thing to hear, especially from such a wise and tolerant man, and I tell him I've struggled myself trying to explain the stubborn-The parents are farmworkers," John says. "The kids are gang workers." picking crops to growing crops? Why is it that Mexican farmhands, lor were able to overcome discrimination and exploitation and move from ness of such a scene. How is it that the Japanese, Hindus and Armenians the heart that they are here for only a short while and will be returning the land? Might their proximity to the border explain it, a belief kept in more than a century, have been so passive about the concept of owning He stops the car, and we linger on the place: busted-out windows. the border undermines the bargaining position of the previous wave to the soil of home? Or is it that each new wave of Mexicans who cross

and corruption by adopting a "live for today" strategy, a reflex only cause be a peasant culture that has responded to Mexico's oppression so that they are never able to gain a real foothold? Or might the root strengthened by the oppression on this side of the line?

border, they also find themselves in a valley where the ladder is $m_{\rm list}$. ing most of its middle rungs. We've designed a valley economy that reaches deeper into the rural heart of Mexico for his labor. Once here, provides no real competition to the farm. Each generation of farmer on the ladder. No people work harder. But what happens to their chilthe picker, packer, pruner and irrigator occupy a firm but bottom rung major industry here to realize their labor; there are few middle rungs understandably do, what becomes of their lives? There is no other dren and grandchildren? If they reject the fields, as so many of them to compete with the fields. Hammer-and-nail jobs offered by the building industry are just another bottom rung. Whatever gifts and deficits these residents may carry across the

that they must excel and go to college. They must take a leap from the has for generations been a proposition that ended in the fifth grade who come from homes where English is not spoken, where education heard it explained both ways. What is clear is that we are telling children tive to the fields, or simply a failure of imagination, I don't know; I'w children at Fresno State who've made such a leap. I have encountered bottom rung to the top rung with no station in between. I have taught neighborhoods in the nation, who might have become electricians of many others in southeast Fresno, in some of the most impoverished college, they drop out, join gangs and raise children out of wedlock them that way. Instead, frustrated by the want of an option other than welders or plumbers if their junior highs and high schools had steered Whether the gaps in our ladder are by design to keep the worker cap-

the matter any further. Maybe he regards our conversation as having agriculture to a plantation caricature. He's quiet for a good half minute Maybe he's grown weary of high-minded arguments that reduce valley ventured a good distance beyond the canal and the subject of water as we study Tooleville's existence. John listens intently, though I'm not sure he's comfortable exploring

"But I used to think of the east side as the exception in the valley. We "We've always had our Toolevilles and always will," he says finally,

> had real communities here, Mark, where whites, Mexicans and Asians CITRUS HILLS

integrated. Real honest-to-God American communities. But that has of the Okies made it. A lot of Filipinos made it. But the Mexicans as a started to change the past few decades." group are having a harder time. As we've brought in successive generai should," he says. "The Japanese made it. The Hindus made it. Most tions to work the fields, it's created this underclass." I wonder if he might be romanticizing the past. He doesn't think so. "That climb up the ladder, sad enough, is not happening the way

to buy his own twenty acres—and a ditch full of snowmelt to keep it in to become a farmer. That chasm is a fact scorched into the ground. knees in the fields and earn enough money over four or five harvests Along time ago in the valley, an immigrant could sink to his hands and is equally a consequence of immigrants ghettoizing themselves, he economic disparity alone. The separateness he sees on the east side Even so, John does not blame the loss of community cohesiveness on are to stacking dollar bills, it's virtually impossible for a farmworker you bust your ass in the fields today, no matter how committed you water. My grandfather had done exactly that. But no matter how much undocumented status only serves to widen this chasm. "Something's barrio, many others are content to live among themselves. Their mostly believes. As much as some Mexican immigrants want to bust out of the been lost," he says.

It took a Saroyan to capture another. The east side, the west side, the than most. It took a Steinbeck and a McWilliams to capture one aspect. ship explains not only the type of agriculture practiced in each but the center valley—each has its own relationship to water. That relationis more likely to share in the spoils of irrigation. The land reliant on does. The land blessed with river is one kind of place. The worker there culture itself, why each one looks and smells and vibrates the way it imported water and water mined from the ground is another kind of place. The way things work there bears more than a passing resemsuch a challenge to unpack, is that it combines the two. blance to the feudal system. The puzzle of the east side, what makes it No place is easy to pin down, and the valley may be more elusive

Tooleville is easy to grasp. It exists for a reason. Way back when, the



Where Tooleville ends at the Friant-Kern canal

effects still linger. The codes were wiped clean of offending language years ago, but their and trailers. For years, they fetched water by milk pail. Some still do. seek out a patch of alkali in the country and plop down their shads in the idiom of wink and nod. Migrants were given little choice but to real estate codes were written in official language; redlining was written the "ditch bank" Okies. Hatred barred the blacks and Mexicans. Racist migrant worker was locked out of towns and cities. Economics barred

The scale of the farming is industrial, but the work is easygoing. trees extend from the flat foreground to the hills in the background gantly climbs the second rung of a ladder to fill up his canvas sack with doll to clutch an orange bigger than the doll's face, A tall white man elea red dress is sitting in the orchard. She's put down her Raggedy Ann fruit. Not a pant leg is smudged. Row after row of perfectly symmetrical orange harvest as Norman Rockwell might have. A little white girl in the larger murals, on the side of the old Mixter pharmacy, depicts the buildings downtown have been painted with splendid murals. One of if it marked the distance as one hundred miles. Years of community beautification have turned Exeter into a tourist gem. The restored brick late little town of Exeter. The road sign from here to there would be truet Just the other side of Tooleville, five minutes away, sits the immacu

"I know it's an idealized scene from the 1940s or '50s, but where are

an or perhaps Filipino. I know from my reading of Factories in the an argument can be made that one or two of them appear to be Mexiwundered the same thing. If I look carefully at the faces of workers, the Mexicans?" I ask John. He says when he first set eyes upon it, he and stabbed a white man. A mob of whites was immediately organized. of amusement. One of the molested Filipinos grabbed his bolo knife the end of the 1929 harvest, that white farmworkers pushed Filipino Field that it was on these same streets, during a carnival to celebrate ley. When John says the Filipinos in the citrus belt "made it," he really violence against Filipinos spread to Tulare and then to the Salinas Valtheir labor camps, burning their shacks and tents to the ground. The They beat and roused the Filipinos from the fields and drove them from feld hands off the sidewalks and physically barred them from places means that they made it out of here alive. No Filipino works these fields

crossing from Tulare County to Kern County, threading through eight inside the irrigation districts served by the federal water and outside Dome to Rag Gulch. Since the federal canal became a presence seven today. No Filipino grows an orange. the district was farming 16,776 acres of grapes, nuts and citrus. By the as it sprawls across both counties. In the second year of this drought, the bitter thirst of drought. Consider the Kern-Tulare-Water District been able to deter the farmers. Not the worst alkali and hardpan. Not the districts in a no-man's-land without federal water. Nothing has bled their cropland to 1.9 million acres. This growth has occurred both decades ago, the three counties where the flow goes have nearly doudifferent irrigation and water districts, from Lewis Creek to Tea Pot not last. As soon as the aquifer builds up, it becomes an excuse for ter replenishment that occurs because of these imported supplies does water keeps getting spread over a wider and wider area. The groundwarus. As the footprint of agriculture keeps extending outward, the canal fourth year of drought, it is farming 18,017 acres of grapes, nuts and cit-We spend the rest of the afternoon navigating the canal's length,

growers to add more farmland and pump even more. farmland, seems to have lost its way. It's been stretched to a point whose emerald leaves have turned a sickly yellow or whose sixty-year that can no longer be sustained. As John and I pass through orchards The Central Valley Project, built in the name of saving east side

droughts in the 1920s and 1930s, the same ground that launched the old trunks are being ripped from the earth on account of drought, the now, there's no more water, near or far, to steal. landed in the same place where it started almost a century ago. $O_{n|\gamma}$ cries of "Steal us a river!" and the building of the project. The land has irony is plain. This is the same ground that was imperiled by successive

things, this orchard won't be able to ride out the drought. take a lot, John says. Some of the trees we're passing are nearly one orchard upward, like a gust lifting a woman's skirt. A citrus tree can hundred years old and still producing tasty fruit. Sadly, by the looks of A dust devil rises in front of us, its swirl blowing the leaves of the "This is a guy on his uppers," John says. "He may lose his place."

"Uppers?"

"Yeah, he lost his lower teeth from grinding. Now all he's got left are

ranches becoming larger ranches, and the culture of the east side will acreage limits. There are no more obstacles left to slow the shift of small to pay off the federal government for the canal's original construction costs. In the process, the districts freed themselves from the dictates of east side irrigation districts borrowed enough money from Wells Fargo anymore. When the water contracts recently came up for renewal, the the citrus belt the way it was elsewhere. The law, however, doesn't apply by federal reclamation law. The 960-acre limit wasn't openly flouted in might have accumulated citrus empires were prevented from doing so original families have held on to the land. The wealthier growers who eighty acres ten miles away, John says. Even Resnick grows his citrus acres of citrus can still sustain a family, and this is why so many of the on lots of smaller ranches. There's a good explanation for this. Forty acres, but it's broken up into twenty acres here, forty acres there and chunks of land in the citrus belt. A guy might be farming a thousand smaller than I thought they'd be. Not even the big growers own big For the most part, the ranches on either side of the canal are even

ground as the Tipton kangaroo rat told me: He's now an endangered species standing the same doomed On the way back to his packing shed, I tell John what the Munns

"What's stopping these hedge funds and pension groups from

an accumulate five thousand acres of citrus and get the federal water smooping in and buying this ranch and that ranch?" I ask him. "They CITRUS HILLS

for cheap.

small guy is going to hang on is if he's willing to do something crazy." dollars taking out old varieties and planting new ones. The only way a With another do-or-die harvest of citrons in front of him, he doesn't "they're doing it as we speak," he says. "They're spending millions of

have to explain what "crazy" means.

l was J. G. Boswell who first told me the story of Otis Booth and his dirus belt. Booth was a cousin to Otis Chandler, the Stanford shotputorthard perched on a rocky hillside in the far northern reach of the that created Los Angeles. The way the family trust fund worked, the the great-grandsons of the epic bellower General Harrison Gray Otis, ting champion who became the publisher of the Los Angeles Times. As a fancy way of saying he was now in charge of procuring the paper newspaper dynasty. They named him vice president of production, Stanford and then went to see his cousins about a possible role in the Ous Booth got his engineering degree from Caltech and an MBA from Chandler kids had a lot more money and clout than the Booth kids. Booth and Chandler were both beneficiaries of the Owens River heist a tidy sum buying and selling condos on Orange Grove Boulevard in and investing money. He and his buddy Charlie Munger were making had mastered the skills of fly-fishing, big-game hunting, saving money a house in San Marino like the rest of them. By his mid-thirties, he that the news was printed on. He made a comfortable living and built Pasadena when they heard about a prodigy from Omaha, Nebraska, Hathaway were somewhere in the range of \$1 million. Forty years on, kept shoveling money to him. Booth's early investments in Berkshire named Warren Buffett. They were so beguiled by his skills that they

he was worth nearly \$3 billion. in Ivanhoe from his Grandma Farnsworth and hired a professional to that selling oranges made for a decent return, but the real windfall was plant the trees for him. That was back in 1955. He quickly discovered growing them. Everything from trees to tractors to Cadillacs (if a Cadilthe open-ended tax write-offs that the federal government allowed for Booth was no farmer, of course. He had inherited his first forty acres

millionaires of Exeter, who reported yearly incomes of thirty and forty grand, were experts in tax avoidance. Booth, a tall man with shoulders beefed up from lifting weights with cousin Otis, drove up and down lac is what you considered to be your tractor) was a deduction. The until he owned ten thousand acres. In the citrus belt they called him started on flat ground and ended up climbing the hill. He didn't stop South Pole, collecting orange groves became one of his hobbies. He River in Colorado or hunting rare species in Africa or exploring the the citrus belt looking for more orchards to buy. Like fishing the White

and one from his second, which allowed him some swing to get around reclamation law. He put enough 960-acre chunks in his name and the first marriage was Daddy's girl. He could take her fishing and hunting covered the entire ten thousand acres. His daughter Loren from his names of his wife, children, grandchildren and nephews that it almost own independent pest control adviser? Why was he allowing his packer once she graduated from the California Ag Leadership program. Why and his citrus consultant about what they were doing on her 960 acres. in animal science at Cal Poly and met and married a Bakersfield potato and she'd hold her own. She could get on a horse and fly. She majored trees loaded with fruit—fifty bins per acre—were packing out at twenty to be his picker? There wasn't a single employee at Booth Ranches instruct him on how much chemicals to use? Why didn't he have his was her father allowing the company that sold him farm chemicals to They tried to brush her off, but her questions only got more pointed farmer. She had bothered to learn enough agriculture to bug her father bins an acre. Something was amiss. tasked with counting the oranges that went into each bin. Valencia He'd been blessed with four children, three from his first marriage

Its own citrus in its own shed and selling oranges with its own mar office. By the time she was done pestering, Booth Ranches was packing ited her mansion said it belonged on the cover of Architectural Digest spread on top of the hill that overlooked the orchards. People who vis Divorced from the potato farmer, Loren Booth moved to the cattle Keting team under its own labels. Father and daughter were partners Her father came to trust her enough that he'd be away for weeks at This was how she "pestered" her way into the fields and the front

> the biggest citrus growers in California. "It's all me. Just me," she tells executor of his estate, and bought out all her siblings. Now she's one of When he died, in 2008, she took the advice of old Charlie Munger, long enough to approve some of her bigger decisions and then fly back. a time at his home in Bel Air. He'd fly up in his Learjet 24 and stay CITRUS HILLS

me on the phone. "I'm the only one drowning in a dry well." Crafted in the style of a grand Spanish-Mexican hacienda, it appears The new headquarters for Booth Ranches looks nothing like an office. are hiding. That's when, out of the corner of my eye, I catch the big as and ask the secretary where the last vaqueros twirling their lassos door carved from a huge split of wood. I'm tempted to act the smartlifted from the old Californio days. Roses and fountains lead to a front Ois Booth enjoyed going up there to hunt elk. That was how he met and Los Angeles. The ranch was once part of Chandler territory, and Tejon Ranch, the 270,000-acre spread in the mountains between here the hilltop. Buddy is a Tejon Indian whose father was head cowboy at Buddy Montes, who watches over a few hundred of Booth's cattle on framed photo hanging on the wall. It's a picture of a vaquero named

Buddy's father.

early this morning and rode," Loren Booth says, explaining her getup. last approaching. She's wearing jeans and cowboy boots outfitted with late fifties, lean and strong, her brown-blond hair tied in a ponytail, is hear a jangling from down the tile-floored hallway. A woman in her restored saddle studded in silver. I'm about to feel its polish when I real silver spurs. Each drop of her boot sounds another jangle. "I got up Among the decorative items sits an Old West safe and a beautifully

to wiggle by in the years of decent snowmelt. In dry times, the system water from the federal project to cover the shortfall. It was trick enough He stuck trees in ground with no groundwater and too little surface chore. He overplanted his oranges by more than three thousand acres. "I needed to escape." became a turnip with nothing left to squeeze. Her father's water broa block of water that a faraway irrigation district was willing to sell wheeling of snowmelt from one region to the other. Keller would find ker, an engineer named Dennis Keller, was considered a savant in the She talks fast and chews off her words. Her father has left her quite a

and grab it for a price that Otis Booth, ranked 189 on Forbes list of the would be deposited in the aqueduct like money in a bank account and 400 richest Americans, didn't mind paying. The water, thus purchased called the Cross Valley Canal. A few days later, an equivalent amount of would make its journey from west side to east side via a little marvel Kern Canal. Traveling a go-between of ditches, pipes, pumps and drip lines, the water would scale the hillside to irrigate 1,538 acres of oranges water would be available for withdrawal from a turnout on the Friant.

deliveries," she says. "Even in the worst drought back in 1976, we were able to get some federal water. But zero upon zero?" "In all the years of the Friant-Kern, we've never had a year of z_{cr_0}

for a photo of her father and Otis Chandler on one of their hunting or kers, ears glued to phones, wave hello. In her office, she fumbles around every Tuesday and Thursday, and then the sales office, where fruit bro didn't do anything. Now, when it came time for me to be presented person you could imagine. I never had a tennis or dance lesson. We wives and pampered kids. But my dad was just about the most frugal ing in San Marino with all these captains of industry and their socialie fishing trips. "I had the weirdest upbringing. I mean, there we were liv-She tours me around the kitchen, where she serves her staff a meal



Loren Booth oversees the citrus packing line she designed herself.

n society, I was presented like all the others at the Pasadena Guild of Children's Hospital Debutante Ball. Oh, yes. At the Huntington Hotel. ence in my life until his last five years, when we began to redo our entire named Dody. Thank goodness I loved animals. He wasn't really a preswhen I was in the fifth or sixth grade and married a wealthy woman I was Otis Booth's daughter, even though he had divorced my mother CITRUS HILLS

another. A few months ago, she sold off four hundred acres located twenty-five hundred acres of marginal orchards in one district and in 2009, she'd reduced his ten-thousand-acre footprint by selling off operation. We really got close. It was a lot of fun." outside the reach of an irrigation district, an area dependent on a her father had left her: too many oranges and not enough water. Back practically fruitless, she can starve the trees of water and still be able to radically that the trees appear shrublike. With their canopies rendered water table fast dwindling. She's pruned back some of her orchards so ing winter. But even with these measures, she still finds herself short of green them up when the drought ends, assuming it ends in the com-Even before this dry time, she could see the upside-down legacy

from the open market to cover the cutbacks in the government supthousands of acre-feet to irrigate her trees on the hill. their desperation. They've decided to make do with half the water they aren't about to let water-rich farmers to the west and north prey on fellow growers here, members of the Hills Valley Irrigation District, this water, twice what it would cost in a non-drought year. She and her ply. Problem is, the sellers are demanding up to \$1,500 an acre-foot for After an exhaustive search, Dennis Keller located enough water

truly need.

four hundred acres," she says with a groan. "No other choice. Maybe "We're looking at pushing out another three hundred and fifty to

at least not to anyone making an unsentimental calculation of things. another orchard on flatter ground miles away. This doesn't make sense, her father planted together. But she's actually talking about bulldozing when the rain comes back, we can plant it again." your footprint, doesn't it make sense to do that up here? plies run iffy, I ask her. If you need to tear out more orchards and reduce Why favor hilly ground where the aquifer is poor and government suplassume she means the navels and mandarins up the hill that she and "You can look at Hills Valley and say, 'No way. No way should citrus

"The soil is some of the most productive in the citrus belt. It gro_{ws} protected. We're sitting in the best of the thermal belt. This is the warmbeautiful fruit. These orchards back up against the mountain, so they re trees be planted up here. But this is virgin ground," she says firmly,

impossible, come the next drought, to find enough water to keep the and rely on the government canal alone. This would make it near other growers on the hill would then have to shut down their pumps see the orchard return to range. trees alive. She may be a cattle rancher, too, but it would not be easy to the district's fragile water table off-limits to agriculture. She and the water management plan, once it goes into effect, could very well declare She knows time isn't on the side of Hills Valley. The state's ground-

least, the horizon is a billow of emerald green. hilltop to survive the next one, and the next one. For the time being at this drought with no more harm. Maybe it will allow these trees on the use by as much as 30 percent. Maybe technology will get her through according to plan, she might increase her yields and reduce her water only when the trees are in an optimum phase of growth. If all goes moisture content. The sensory sticks allow her to turn on the drip lines meters three feet into the earth, so they can constantly monitor the picks up again. Inside the lush grove, her irrigation men are planting A half mile up the hill, the road peters out and I can't tell where it

in the family. I'm the last of the Mulholland line." have two daughters," he tells me on the phone. "There are no men left William Mulholland's only great-grandson. "I have three sisters and I waters of irrigation. Seeing how this was the road I was retracing, I moved over the mountain from one valley to the next, following the couldn't very well leave the east side without knocking on the door of the paving over of Los Angeles. Neither did the Holstein. They simply lands' story traces a path of California. The orange did not vanish with teen hundred acres in the citrus belt. Like the Booths' saga, the Mulholday Los Angeles. This last Mulholland, Tom Mulholland, happens to to the William who dried up Owens Valley and gave birth to modernpropagate and grow an aberrant variety of mandarin orange on tour-There is only one Mulholland left in the world who can trace his branch

Citrus brokers down in Los Angeles had warned me that Mulholland

the Halo, there was the Delite. It was propagated, watered, picked and whose sweet and tart delight the consumer. Before the Cutie, before is roots in the Washington navel and toward varieties of mandarins revolutionize the industry, pushing California citrus culture away from guish between the two. As it was, he was a wealthy man who had helped nchest citrus farmer in California, they said, had he been able to distinthat was both gift and curse. He gyrated from nursery to orchard with a mind constantly overtaken by new ideas. Some of the ideas were han rancher who even into his mid-sixties possessed a "wild energy" brilliant and realizable, others pure duds. He might have become the nasualike any other mandarin grower I would encounter, more hippie CITRUS HILLS

orchard isn't an orchard but a backyard. The hedges are tall, and the unlike the ones in the Pasadena picture postcards, circa 1905. The lountains are burbling. Grandkids are splashing in the swimming pool. wood color that only adds to its effect, and I am compelled to get out of mated as mankind took over California." The metal is painted a reddish NULHOLLAND HIGHWAY," the sign reads—toward a citrus estate not minutes of communing with the gate, I glide down the long driveway the car and touch and study it as one might a piece of art. After a few himself as a "tribute to two species of trees that have been nearly decicarved in ornate depictions of oaks and redwoods that he designed ing than he had described to me. It is a beautiful piece of metal artwork bor, I pull up to his entrance gate, which is even more odd and arrestmarketed by Mulholland. A few miles north of Orange Cove, four hundred feet above the valley

grapefruits anymore. He sold the ranch to a Northridge developer, who as housing tracts and shopping malls surrounded him. Grandpa Perry held on until 1965, until L.A. sprawl made it all but impossible to farm his son Perry, a tall man with a cruel bent who refused to sell out even In the summer of 1935, his farm in the San Fernando Valley went to Ing on a cigar beneath his beautiful mustache. When the old man died, lace of Great-grandpa William, of neither ill nor good humor, chompa study where a big elongated banner hangs from the wall. It's the giant Hammond organ served as his "Ritalin" growing up. He takes me into ADHD," he jokes. His father's recordings of Jimmy Smith riffing on his my tape recorder to play him back. "I had ADHD before there was holland balding head. He talks fast enough that I'll have to slow down Tom is tall with broad shoulders, wire-rimmed glasses and a Mul-

modest amount, went to Perry Mulholland's three children, including anchored the land with a Kmart. What was left of the \$2 million sale, a a son, Richard, who worked for the RAND Corporation, the military and the Rise of Los Angeles to set the record straight about her grandfacontractor; and a daughter, Catherine, who wrote William Mulholland ther. He had no financial stake, she explained, in the land syndicate that turned stolen water into fabulous fortunes.

funky road, drilled three wells and planted black-eyed peas and cotton one who's sitting across from me. Richard bought 240 acres along a to Orange Cove with his wife, three daughters and his son, Tom, the as transition crops. A mathematician by training, he built a nursery and here because the San Fernando Valley was being encroached upon. He holding off frost with wind machines and smudge pots. "My father came propagated his own citrus trees. By 1960, he was growing Valencias and didn't want to farm behind a cyclone fence," Tom says. "He knew this was and Tom's father started doing rootstock trials there. Tom was ten years acre." The University of California had a citrus field station not far away. erty ground. Two hundred and forty acres for two hundred dollars an didn't believe in borrowing money, all he could afford to buy was povgoing to be one of the last places in California to turn urban. Because he old when he germinated his first orange seed in 1962. "You might say I'm the longest-running citrus propagator in the state of California. In the mid-1950s, Richard quit the RAND Corporation and moved

what it is, he advised. He subscribed to the Los Angeles Times by mail bound place where the southern plantation had been reborn. See it for the San Joaquin Valley, for all its agricultural innovation, was a hide with extra-thick walls as insulation against the valley heat. He kept berg, a Fresno girl, and they raised two daughters and built this house his passion of propagating and growing citrus. He married Jill Rosenenvironmentalist in college and ached to return to the ranch to pursue Iom to see the world in a more nuanced way. He became a committed verware passed down through the generations. This upbringing allowed family sat down to eat at a formal table set with fine china and heavy sil-)azz, the more improvisational the better. Each Sunday evening, the refused to buy a television set and filled the house with the sounds of tarming alongside his father until his father's death in 1992. The returns Richard was both aloof and demanding. He taught his children that

and his circus were good enough that he was able to grab 400 acres in

datwhere it was going. Citrus was an oddity of creation. Each different full belonged to the same genus. The variants among them—orange, Damba and 150 acres in Farmersville to add to the home ranch. from that seedling a tree was propagated. The blossomed fruit—few in mor three buds that were different from all the other buds. The acciuntil some cosmic ray struck a branch of a tree in Brazil and created but nature's chaos. The Washington navel wasn't the Washington navel imon, lime, grapefruit-were a product not of man's hybridization as the W. Murcott. The budwood traveled across the ocean to North seeds, easy to peel, a taste beyond other mandarins—became known tion of a slightly different order, a chance seedling, was discovered, and osmic ray struck just right. This happened late in the last century in wanch wisely lopped off the next pruning. Now and then, though, the over that one of his trees had decided to offer up something different. armer called a sport. Every so often over the centuries, if the right sweter than its predecessor—had come by way of mutation, what the dental fruit that grew from those buds—easier to peel, free of big seeds, Often, the sport was a negation of the original, a fruit best left to rot, a amer was paying proper attention, he'd walk into his orchard and disafield of mandarins in Morocco that belonged to the king. An aberra-Tom loved citrus for the same reason he loved jazz: He couldn't pre-America and found its way to Riverside, California, and then to Tom

to see the king's orchards for himself. He tracked down the set of Muretside, for propagation. Seeing that he was the first grower in line, the cott buds sent to the citrus experts at the University of California, Riversida 6 marketed as Delites, were delicious. The Cuties brand didn't exist yet nugget." He pulled out 150 acres of Valencias and planted the Murcotts. cated them in his nursery. Right away, he knew he had found the "golden university gave him the buds, no strings attached. He promptly repli-Mulholland, who'd been preparing all his life for such a moment. "I know it's going to be good, but sometimes people need validation. Who were just starting to plant their varieties of seedless mandarins. He was at least a year ahead of Resnick and his partner Berne Evans, The trees took to the hard ground like billy goats. The fruit, which he It was 1997, and he and his wife had divorced. He traveled to Morocco "This is the first time I have something that's really good," he recalls.

CITRUS HILLS

'Do you believe in it, too?' I panic. I don't know marketing. I don't drummed it in my head to never borrow money. So I go down to Los biggest growers in the state. He doesn't know me from a load of coal. I Delite. 'Mr. Evans, would you like to join my organization?' He ha, ha, ed me. He penetrated all my orifices, and I walked out with no deal."

selling his Delites to Whole Foods and Trader Joe's. Walmart even gave it belonged to him. Then, just when it looked like he had snagged the and sold the Delites from February to April. It was a short window, but him a spot in its produce aisle. Consumers loved his Murcott. He picked prize, the Cutie came crashing through the door. Resnick and Evans were riding a rocket. Who cared that their brand was a fabrication? believe, through tens of millions of dollars in advertising, that a spring Resnick and Evans covered multiple seasons. They made consumers and ripened at a different time. But by marketing all three as one brand, Clemenule, the Tango and the Murcott. Each variety had its own flavor The Cutie wasn't one piece of fruit but three varieties of mandarins: the a Murcott? Masquerading as one, Cuties could outlast any competitor supposed to be. Who knew that one was a Clemenule and the other was drier, the shopper assumed it was happenstance. If the March Cutie Cutie was the same fruit as a winter Cutie. If the November Cutie was aisle squeezed down, Mulholland tried to find new niches. eties of mandarins to sell into the Cuties line. As space in the produce Suddenly, every citrus grower in the valley was planting different vari was sweeter and juicier, the shopper figured it was the way the fruit was By himself, knowing he had a head start, Tom took a shot. He began

And then on Halloween Day 2011, the two big guys, Resnick and Evans, met at the Jonathan Club in Santa Monica to iron out a dispute. They were fifty-fifty partners in the mandarin deal. When one planted a new block of trees, the other had to plant a corresponding block. Evans had found out that Resnick was adding acres without his approval. Lunch had not yet arrived when Evans decided to broach the subject. Resnick cut him off: "Berne, I'm taking over this business. And I'm going to charge you six percent commission for selling your fruit." Evans was a citrus man. He was the one who had come up with the

idea of growing different mandarins. He had shared the idea with Respick, who didn't know the difference between a Murcott and a Tango. He wasn't about to be turned into a common grower of fruit for Wonderful. Evans got up from his chair and thought about decking Respick right there. Instead, he told him to go to hell and stalked out. By the time they were done fighting, three years later, Evans had paid the Resnicks \$40 million to buy the Cuties label. The Resnicks ginned up a

A pair of heavyweights warring for market dominance left Mulholland too little space. His Delite could not survive on its own. He had make a choice: join the Cuties family or join the Halos family. "They did three mandarins as one brand," he explains. "And I was being too honest. I was too small, and they were so big. Even at fourteen hundred acres, I couldn't compete. Not enough land. Not enough water. I had to pick a side, so I chose Resnick."

Then the drought arrived, and the feds slashed deliveries to nothing, and he cranked up the volume on his pumps, only to now watch fifteen of his wells go dry. Even his "wagon wheel" wells, workhorses extraordinaire, have stopped producing. These ingenious wells were dug in the 1960s and required a worker to enter a hole seventy feet deep until he hit a fissure of water in the rock. If the crew above him miscalculated the water's pressure and volume, the fissure could easily drown him. It wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much an aquifer he was striking but a vein of water that wasn't so much and well with a horizontally wide and suck water from a vertically deep aquifer, not a horizontally wide and suck water from a vertically deep aquifer, not a horizontally wide and suck water from a vertically deep aquifer, not a horizontally wide and suck water from a vertically deep aquifer, not a horizontally wide and suck water from a few at read a few at the suck water from a few at read at the suck water from a few at read at the suck water from a few at read at the suck water from a few at read at the suck water from a few at read at the suck water from a few at read at the suck water from a few at read at the suck water from a horizontally water from

Makes more sense just to shut them down.

To get his trees through the summer, he's negotiating with the waterich families sixty-five miles to the west who raise row crops on the hisich families sixty-five miles to the west who raise row crops on the hisich families sixty-five miles to the west who raise row crops on the hisich families is not placed in the sack in the 1940s, when the
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the worst of dry times, the Sacramento water flows to them. The asking received first draw to the federal water imported from the delta. Even in water that Loren Booth has passed up. This is the water that Mulhol. price for a chunk of this primo supply is \$1,500 an acre-foot. This is the land cannot afford to pass up. "We all have our different calculations," he explains. "Mine tells me that I can sell my mandarins for a high enough price to make that high-dollar water pencil out."

Citrus growers are pushing out older trees to squeeze through the

closest thing a grower has to a sure bet. If not for its rise over the past drought, but none of those trees are mandarins. The mandarin is the few decades, the citrus belt, too, might be part of the nut belt. But with tachios, citrus still rules here. Not only can the mandarin cover the the returns on the fruit every bit as lusty as those on almonds and pisswindle of drought's high-priced water, but it uses 15 to 20 percent less water than the almond.

drought. "Maybe I'm just as guilty as the big guy," he says. "Manifest as he pays through his nose for the water needed to survive this out here. Reasonable people, for the most part, acting reasonably. But farmed. The tragedy of the commons—that's exactly what we're seeing destiny teased us onto ground that maybe should have never been the cumulative effect of it is compromising the resource for everyone and every use." Mulholland sounds more like an environmentalist than a rancher

she wanted to follow her father and grandfather into citrus. "My sixth in a big sofa chair. She knew all the way back in grammar school that his daughter Heather, who's been sitting quietly for the past half hour ing me. He's glued to a barstool at the kitchen counter and gazes back at Now a partner in the operation, she is a keeper, too, of the Mulhol grade project was on insects beneficial to agriculture," she explains explaining how his dream, so close, got away, she has tears in her eyes. tells his stories, and she loves him for it. But now as he's finishing up knows this is the way her father, raised on the jazz of Charles Mingus about to jump in to guide him back. Only she resists doing so. She thoughts and takes off, and she scoots to the edge of her seat and seems land story. There are moments when her father's mind grabs at errant I look him in the eye, wondering if he's being sincere or simply work

"I should have borrowed money," he says. "I should have built my

gave it three years, and then we put the last Delite in the box. was a one-man band. I was doing the fiddle and beating the drum. We own packinghouse. But I wasn't taught by my dad to think that way. I cotts, but it's hard to say that it's 'our' fruit anymore." "Thad to pick a side. And that's the story. We're a grower of W. Mur-CITRUS HILLS