A New Economic View

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AMERICAN

HISTORY from Colonial, Times to 1940

Second Edition

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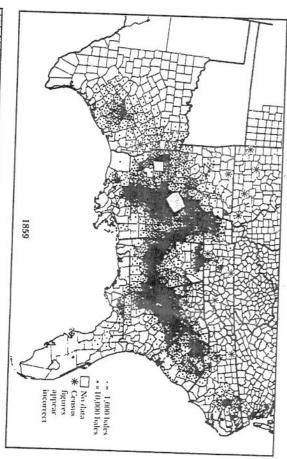
The south after the civil war

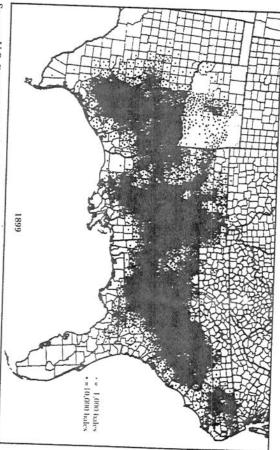
late population growth if it reduced labor scarcity and the value of their capand relentless drift of cotton production into Arkansas, Mississippi, and but little support for banks, railroads, and market towns serving local needs. ital stock in slaves. Texas (see Figure 14.1). Moreover, slaveowners had little incentive to stimulay just a few miles farther south and west. I Instead there was a continuous tain and improve their land so long as new and even more productive land Certainly as individuals southern planters had little or no incentive to maintheir cotton—some modest river and port improvements, for example infrastructure beyond the minimum necessary to facilitate the export of Before the war southern planters had shown little interest in developing an been movable slaves. Overnight the primary asset became immovable land. mental. For generations the principal asset in the southern economy had came freedman or freedwoman and employer. The change was more fundarelations as well as military trauma. It was not just that slave and master bedevelopment. In the South it brought a complete restructuring of economic In the North the Civil War resulted in a brief pause in long-run growth and

also became interested in farm improvement and soil conservation would generate positive externalities that landowners could capture. They cheap labor became a necessary and desired input and land became the local development—small towns, roads, and railroads—development that principal source of wealth. As a result, southerners became interested in Emancipation radically altered these incentives. Suddenly, overnight,

Cotton Production in the United States: 1859 and 1899

FIGURE 14.1





Source: U.S. Department of Agriculture, Allas of American Agriculture, part 5, sec. A (Washington, D.C.: Government Printing Office, 1918), 17.

Kotlikoff and Pinera (1977). more fertile lands undermining the price of slaves and land by driving down cotton prices. See In the aggregate, however, the slaveowners had much to fear from the westward migration to

Southern agriculture became land-intensive and labor-extensive rather than labor-intensive and land-extensive. And the relentless westward push of cotton production ceased. The result was nothing short of a revolution, but it failed to integrate the South into the broader, developing national economy.

a 9 percent gain per capita in commodity output during the Civil War in this region had been well above the national average, and a growing fracdecade, southern per capita output slipped by 39 percent. In part this rethe fertile lands west of the Appalachians. But while the North was recording than the North's, thanks largely to splendid returns to cotton agriculture on and the 1870s began to close only around World War II. Whereas southern after, the huge income gap that had opened up during the Civil War decade national average. Income levels fell throughout the South between 1860 and come. In 1880, though, per capita income in this region had fallen much tion of southern population lived there, boosting southern per capita in-Arkansas, Louisiana, and Texas. In the antebellum period per capita income flected the drastic reversal of fortune for the West South Central region: rowed substantially by 1950, it was still over 25 percent. the midwestern per capita income (Figure 14.2). Although the gap had narthan personal income per capita in the Midwest, by 1880 it was barely half personal income per capita in 1840 had been more than 10 percent higher 1880. Although the South grew at about the same pace as the North therefarther and faster than in other regions and stood at only 60 percent of the In 1860 southern per capita commodity output had been slightly higher

It is not difficult to come up with explanations for this long-term southern economic distress. In fact, the real problem is to choose among the plausible theories. Here we survey some of the competing explanations for the South's dismal economic performance and then consider a closely related issue: the bitter experience of ex-slaves in the hostile world of the post-Civil War South.

The Southern Economy in Decline

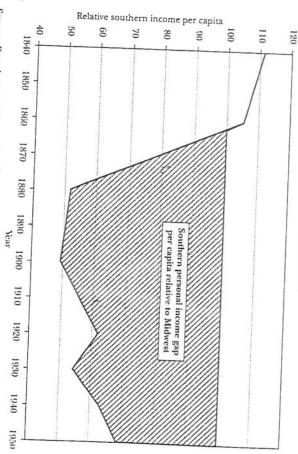
There was extensive physical damage in the South from the war. Much of the war was fought on southern territory, and major cities, including Charleston, Richmond, and Atlanta, were destroyed by the Union army. Moreover, whatever livestock and food supplies in the path of the fighting were not requisitioned by Confederate forces were confiscated by the boys in blue. Still, Claudia Goldin and Frank Lewis's estimate of \$1.5 billion in war-related capital destruction or James Seller's estimate of \$1.1 billion in property loss (40) percent of total southern property value) may overstate the actual physical damage.

Whatever the damage, though, it was quickly repaired. By 1870 the southern transportation system had been virtually restored to prewar capac-

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FIGURE 14.2

Personal Income per Capita in the South as a Percentage of That in the Midwest



Source: Based upon estimates by Richard Easterlin. "Regional Income Trends, 1840–1950," in *The Reinterpretation of American Economic History*, ed. Robert W. Fogel and Stanley L. Engerman (New York: Harper & Row, 1971): 40, Table 1.

ity. Similarly, although the southern manufacturing sector remained small, manufacturing establishments in the towns and cities of the Cotton Belt—presumably a prime target of the Union forces—were producing about 5 percent more output (with about 5 percent more invested capital) in 1870 southern economy, seems to have suffered no shortage of capital. True, the 1860 and 1870 but if this had constrained output, one should have seen a for this scarce resource. Instead, after adjustment for inflation, prices fell. In in 1859 one had been worth about 1.03 bales of cotton.

Nevertheless, many have accepted war damage as the primary source of the southern economic decline. This interpretation has also suited succeeding generations of southerners who blamed the long postwar malaise on Yankee pillage. There is reason, however, to question whether so great and lasting a decline can be explained so easily. After all, Japan and Germany re-

covered rapidly from far worse destruction in World War II. Indeed, the modern experience has been that the military victors have often ended up the economic losers while the military losers have wound up the economic winners.

What, then, made the South's experience so different? Why was southern per capita commodity output in 1880 20 percent below 1860 levels?

Some have blamed the South's loss of its export monopoly in raw cotton.² During the war European mills had eventually replaced blockaded American supplies with Indian, Brazilian, and Egyptian cotton. Once growers in these countries had invested in cotton production, they were reluctant to switch to other crops. Consequently, it was more than a decade before the South recaptured its market share (Table 14.1). Other forces may also have impeded the South's recovery of its cotton market share. Deflationary federal policies, increased world demand for midwestern grain, and capital inflows from Europe increased the dollar price of goods, including American cotton, improving the U.S. terms of trade but making it harder for American cotton to compete with that from other countries. The argument is twofold. On the one hand, the war shifted foreign supply function for cotton outward; on the other, the appreciation of the dollar, by making cotton priced in dollars relatively more expensive in terms of foreign currency, shifted the foreign demand curve for American cotton inward.

L percent a year. Prices fluctuated from year to year because crop size varied sensitive to year-to-year fluctuation in crop size, but much more important, antebellum years. After the war, however, demand changes made price more a pound (1880 prices). Now five percent cotton output growth at a stable output at constant cost to maintain the real price of cotton at about 11 cents price meant rapid extensive economic growth for the South throughout the between 1860 and the 1870s demand for cotton plunged and then stagbooks predict firms in a competitive economy would respond: expanding with the weather, but in the long run cotton suppliers responded as textdence of the southern economy on world demand for cotton. In the three decades before the Civil War the demand for cotton expanded at roughly 5 Wright explains southern retardation in terms of the fundamental depenon the demand for American cotton. At the same time high cotton prices producers than India. Hence shifts in their supply functions had less impact war as during and immediately after. Brazil and Egypt were much smaller supply from India—the South's largest competitor—was as fast before the probably affected exchange rates more than the other way around. Instead competition from these countries was growing over time, but the growth in Egyptian cotton supply curves were indeed shifting outward, suggesting that demand functions for cotton. He concludes that Indian, Brazilian, and Gavin Wright has tested these propositions by estimating the supply and

² Conrad et al. (1967).

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Average Annual Cotton Imports into Great Britain by Source (thousands of bales)

Vegre	11 C A	:			U.S. Percentage
rears	U.S.A.	India	Brazil	Egypt	Share
SOCRI	1,638	406	132	- 1	750
1860	2,581	563	103		1 7
1861	1.842	987	100		
1869_65	916	1 110	100		16
1002-03	017	1,418	206		10
1000	1,163	1,867	408		20 1
1867	1,226 1,511 437	1,511	437	198	20 C
8981	1,269	1,452	637		7.8
698T	1,040	1,496	514		0 5
1870-71	1.957	1 150	100		7.
1879 72	1 651	1,100	GCF,		50
1014 17	1,001	1,179	595		42
10/4-/5	1,909	1,048	461		۲0
1876-77	2,041	649	324		60
1878-79	2,330	469	109		00 2
1880 - 81	2,688	544	176		1 7
1882-83	2.670	870	901		12
Interpretation:	The U.S. preuse	chang of d	1		03
India and an arrangement	rue o.a. prewar	share of the c	otton market	was not recov	ered until the 1970.

India and Brazil, which had picked up the market during the Civil War, gradually lost it again, but the regression took more than fifteen years.

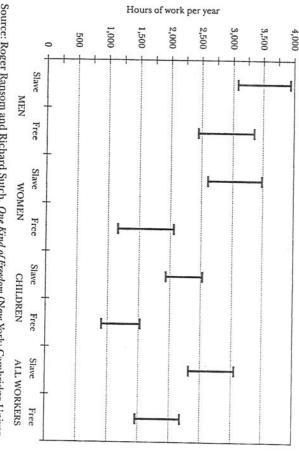
Source: Thomas Ellison, *The Cotton Trade of Great Britain* (New York: Augustus Kelley, 1968), cited in Gavin Wright, "Cotton Competition and the Post Bellum Recovery of the American South," *Journal of Eronomic History* 34 (1974): 611. Reprinted by permission of Cambridge University Press.

nated. While demand had been growing at 5 percent before the war, it slowed to just 1.3 percent per year for the period 1866-95 and grew at only 2.7 percent, or about half the antebellum average, between 1880 and 1900. Thus, with or without the war, it would have been impossible for the South to sustain its earlier economic success. The long boom in cotton was over. The question is why factors failed to seek alternative employment.

Roger Ransom and Richard Sutch have offered an entirely different explanation for the collapse of the southern economy: the reduction in labor supply associated with emancipation. Their evidence shows that as slaves African-Americans, regardless of gender, had no choice but to begin working earlier in life, work more hours each day and more days each year. Once they were free to choose, they opted to spend some of their potentially greater income on time off. Indeed, Ransom and Sutch estimate that freed—

FIGURE 14.3

Range of Hours of Work by African-Americans under Slavery and Freedom



sity Press, 1977): 45, Figure 3.1. Source: Roger Ransom and Richard Sutch, One Kind of Freedom (New York: Cambridge Univer-

ern farmers, who still averaged around 3,000 hours or more per year?3 nonmarket work? Why did African-Americans work so much less than northdecline, if true, to be interpreted in terms of a choice between market versus zling questions: Why did the female labor supply fall so much? How is such a African-American children (ages ten to fifteen) and women put in only fort per capita between 28 and 37 percent. These statistics raise some puzthird. The net effect was to reduce average rural African-American work efhours per year to between 1,448 and 2,187 hours a year, or by perhaps a their annual hours of work by about one-fifth. Overall, man-hours (weighted about half as many hours of work per year (Figure 14.3), while freed men cut for productivity differences) declined from between 2,306 hours and 3,047

work hours. Slaves had supplied about 70 percent of southern labor before output per labor hour, however, fell much less because of the reduction in African-American sharecropper in 1879, a decline of 50 percent. Physical shortfall in postwar output. Output per African-American slave on plantations in the Cotton South fell from \$147.93 in 1859 to just \$74.03 per Such a drastic reduction in labor supply could explain much of the

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³ Goldin (1979); Olson (1992)

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tirely ascribed to factors other than wartime destruction. 1859 level. The sharp decline in southern economic fortunes can thus be ento 60 percent. In fact, physical productivity actually fell to 52 percent of the worked because of emancipation probably reduced per capita output by 50 effect of a return to expected output per laborer and the reduction in hours have been expected, and other crops also well above normal, the combined 70 percent). With an 1859 cotton crop over 30 percent higher than might cut total southern labor per capita by as much as 26 percent (=37 percent of the war, so a 37 percent reduction in African-American labor could indeed

war levels until the late 1870s, gradually returning to prewar levels. Southern afterward. The price of cotton (both nominal and real) remained above prethe economy moved from a market equilibrium at A before the war to B $D_{0^{*}}$ Evidence suggests that both supply and demand for cotton shifted and tively less than if the trend had been sustained; that is why D_1 lies to the left of less rapidly after the war than before, then postwar demand would be relatrends had continued unabated. Instead, if demand for cotton grew much mand and the hypothetical relative position of postwar demand if prewar and D_1) for American cotton. In particular, D_0 represents actual prewar delum supply and demand $(S_0$ and $D_0)$ and postbellum supply and demand $(S_1$ The supply and demand curves represent the relative positions of antebelprecisely that. His argument is elegant, yet simple. Consider Figure 14.4. views be reconciled? Happily, the answer is yes. In fact, Peter Temin has done explanation centers on demand factors. Can these two radically different Ransom and Sutch explain the decline purely in supply terms; Wright's

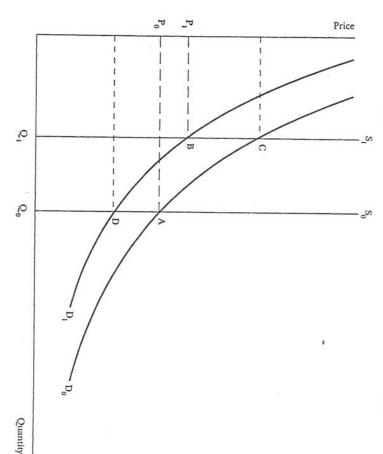
on the other hand, focuses upon the shift in demand from D_0 to D_1 —that is, and quantity matter. By emphasizing the role of demand changes, Wright, of cotton depends upon demand as well as supply—that is to say, both price the shift in supply. However, the income carned by the South from the sale right: The reduction in market sales from Q_0 to Q_1 is attributable solely to view the change as from A to C. Notice that in a sense Ransom and Sutch are per capita income, however, fell to 60 percent or less of the national average. By focusing solely upon the supply shift from S_0 to S_1 , Ransom and Sutch

cent of total income in the five major cotton states, total income at C would about half of agricultural income and agricultural income was about 80 perwould therefore be 80 percent higher than at B. Since cotton accounted for would have been about 80 percent higher than they were. Revenue at C we assume no change in demand, prices for the decade centered on 1880 represents a higher income level than B: Sales are unchanged at Q_1 , but prices are higher. How much higher? According to Wright's calculations, if ing the increase in income from a move from B to C or D. Point C clearly mand-shock move from A to D. Temin answers this question by first calculatreflects supply shocks results in a larger or smaller income loss than the de-For southern income, the question is whether a move from A to C that

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FIGURE 14.4

The Supply and Demand for Cotton Before and After the Civil War



price were reduced by about 24 percent. If, on the other hand, production sents an increase of between a half and a third. If we assume a constant claspercent.⁴ In the former case, cotton producers' income would have been increased by only one-third, then price would have had to fall by about 17 ticity demand curve, a 50 percent increase in output could be sold only if three-quarters what it had been in 1860; thus a shift from Q₁ to Q₀ repretimate that per capita agricultural output in 1880 was only two-thirds to unit elasticity before the war to about 1.5 after the war. Ransom and Sutch eselasticity of the demand curve D1. Wright estimates that this increased from of a move from B to D is more difficult to calculate and depends upon the be about a third higher than at B (0.8 \cdot 0.5 \cdot 0.8 = 0.32). The effect on income

80 percent of (0.5 · 14% + 0.5 · 50%) have increased total income between 17 and 26 percent, where 26 percent = income represented 80 percent of total income, then these changes should come from these other commodities would have increased between onecreased. If one assumes that demand for them was perfectly clastic so that third and one-half. If half of farm income came from cotton and farm their price did not change in response to increased production, then insence of reduced labor effort, output of other crops would also have inincreased by about 10 percent.5 It is reasonable to suppose that in the ababout 14 percent higher; in the latter case, income from cotton would have

pecuniary income for those who chose to work less. emancipation merely transformed measured income into unmeasured nonthe South, while the withdrawal of African-American labor as the result of though: The stagnation of cotton demand generated a real loss of welfare to thus of similar orders of magnitude. Note one important difference, cent of the national average instead of 60 percent or less. If, on the other Ransom-Sutch's labor force withdrawal and Wright's demand stagnation are then income might have reached 70 to 75 percent of the national average. hand, the demand curve had shifted while supply remained unchanged, than it actually was and income per capita could have been as high as 80 perto C rather than A to B—income would have been about 32 percent higher Thus, if the supply curve alone had shifted—that is, by moving from A

The Operation and Performance of Postbellum Agriculture

southern per capita income after the war. Robert Fogel and Stanley Engerman, could also explain the decline in factor productivity. This alternative supply side explanation, advanced by then the switch to an all free labor system should have reduced regional total ture had indeed been more efficient than southern farming with free labor, institutions to adapt to these changes. Moreover, if southern slave agriculrelationships between the factors of production, and it took time for other ing efficiently. Emancipation brought with it a fundamental restructuring of labor. Nor does it necessarily mean that the economy was otherwise operatthe result of those changes in demand or the reduction in the supply of the slaves does not necessarily mean that the drop in income was therefore can be explained by either external demand forces or the emancipation of The fact that the sharp drop in southern per capita income following the war

the basic features of the plantation system by hiring former slaves on annual In the wake of military defeat, southern planters had attempted to retain

 $[\]triangle$ not "small." Instead the calculations reported here were made by evaluating a normalized constant elasticity demand curve: $Q = P^{-1.5}$. The prices changes needed to absorb the change in outand because of the concave (to the origin) curvature of the demand curve put are much smaller than one might have expected because the change in quantity is not small The usual formula for elasticity: $\epsilon = (\Delta Q/Q)/(\Delta P/P)$ doesn't work in this case since " ΔQ is

⁵ Temin (1976) reports the income gain at 15 to 25 percent. We have been unable to duplicate this result.

their former chattels peting with one another by offering labor arrangements more pleasing to labor made it difficult to prevent landowners from breaking ranks and comgangs, as they had when enslaved, and partly because the general shortage of within a few years, in part because ex-slaves fiercely resisted working in and restrict vocal dissent or complaint. Inevitably this system broke down aged the use of violence and intimidation to coerce employee acceptance through so-called Black Codes. Planters set up employer cartels and encourtheir labor services by binding the freedman to particular employers to restrict African-American mobility and prevent open competition for their marginal products. The courts and state legislatures, for example, tried mined, and ex-slaves probably continued to receive less than the value of home pay. But even then the wages were not necessarily competitively deterthem. The only major difference in their work lives was the receipt of taketimes abusive, insulting, and demeaning treatment were only too familiar to the plantation owner and the overseer, the nature of the tasks, and the somesystem was too like the slavery from which they had been freed. The faces of the gangs through collective responsibility. For the freed slaves, though, this them so well when the labor had been supplied by slaves: self-monitoring of ject to discipline by overseers, including fines and discharge without back plantations, the planters hoped to preserve the efficiencies that had served pay but not whipping. By working their newly freed labor in gangs on the old wage contracts. Ex-slaves were hired to work the fields in gangs and were sub-

dominantly cotton) South was even more precipitous. These increasingly time—to only 70 acres by 1930 (Table 14.2). The decline in the Deep (prefarm in 1880-slightly more than in the average midwestern farm of the dramatically in every southern state except Texas, falling from 149 acres per changes elsewhere throughout most of the South, acres per farm declined them former Barrow slaves, worked the Barrow Plantation. With similar tion, for example, at least twenty-five tenant families and others, many of credited as its sources of economic success before the war. After emancipawar southern economy lost the key features that Fogel and Engerman generated. To the extent that the plantation was broken up into smaller operating units, economies of scale were also dissipated. As a result, the postchange the labor gangs disappeared along with any efficiencies they had African-American-family under new tenancy arrangements. With this plots of 20 to 50 acres, each suitable for cultivation by a single—typically however, for many of the larger planters was to subdivide the plantation into whatever wages were necessary to attract the labor they needed. $^7\mathrm{The}$ answer, such as on sugar and rice plantations in Louisiana, where the planters paid The pure plantation was maintained where its advantages were decisive,

Acres per Farm, 1880-1930

TABLE 14.2

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93	79		68
00	1.		2
00			1000
CE	20		SIS
701	10-		-
10/	105		22
<u>-</u>	93		0.0
1			20
95	33		58
83	66		7t
101	200		2 5
	00		05
90	71		66
91	89		1 5
5	100		73
13	100		98
96	380		67
98	20		70
45	7 0		
107107147118138951228312810111590116911501191309612898133145	107 118 95 83 101 90 91 119 96 98	107 105 118 93 95 87 83 66 101 88 90 77 91 82 119 106 96 \$80 98 84	

Table 3.2.

small farms were typically cultivated by tenants and sharecroppers, many of whom were African-American, especially on the smaller farms (Figure 14.5). Indeed, the average African-American-operated farm in the South in 1900 (regardless of tenure) was only about one-third the size of the average farm operated by a white farmer. On the other hand, over the same period, the average farm size in the Midwest grew almost 50 percent to 181 acres.

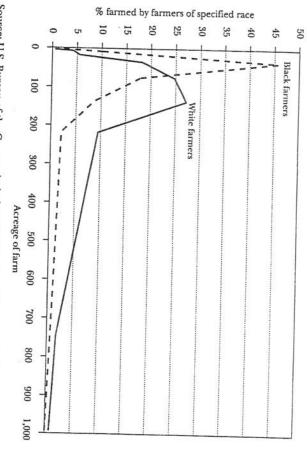
The breakup of large plantations—hence the dissipation of economics of scale—may be an illusion, since the census identified only farm operators and the farm that each operated. True, those data clearly show a sharp rise in the number of individual farm operators, a decline in average farm size, and a shift in the distribution of farm sizes toward much smaller units after the war. In 1860, for example, 37 percent of farms in the five major cotton-cent exceeded five hundred acres. In 1870 more than 60 percent of farms were smaller than fifty acres while just over 2 percent exceeded five hundred acres. But to the extent that there was still a single landlord who provided the managerial direction and supervision, set lease terms, and so forth, it is not were uncoordinated. Instead plantation landholdings continued to be managed as a single unit even when subdivided.

The typical landlord subdividing a plantation assigned some lots to sharecroppers, others were rented to tenants, and yet others were farmed by

Sec, for example, Shlomowitz (1992). Wright (1979, 1986).

FIGURE 14.5

Distribution of Farms by Size and by Race of the Farm Operator in 1900



Source: U.S. Burcau of the Census, *Agriculture*, 12th Census (1900), vol. 5 (Washington, D.C.: Government Printing Office, 1902): Table 1.

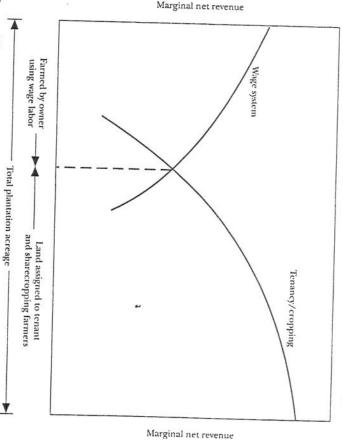
with each) across farm operators, taking into account the wages and other ing account of the different transactions and enforcement costs associated then determined by the planter's equalizing marginal profitability (after takcerns were with the stewardship of the land and the tenant's ability to make the rental payment when due. 9 The mix between these different groups was the land on the boundaries of the plantation since the only landlord confarmed land farther from the owner's house, while the cash tenants farmed day-to-day cropper's work effort than with the overall well-being of the crops stant monitoring, farmed the land closest to the planter's home. Croppers in which the landlord had a vested interest. Consequently, sharecroppers required less close supervision since the landlord's interest was less with the on the plantations. Wage labor, which required daily instructions and conthe spatial distribution of different forms of land tenure and farm operation Monitoring and other enforcement costs played a key role in determining the planter using wage labor in a systematic, economically rational manner.8

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 Alston and Higgs (1981); Virus (1987).
See Thomas J. Wooffer, Landlord and Tenant on the Cotton Plantation (Washington, D.C.: Works Progress Administration, 1936).

FIGURE 14.6

Determining the Optimum Allocation of Land between Different Tenure Systems



Source: Warren Whatley, "Institutional Change and Mechanization in the Cotton South," unpublished Ph.D. dissertation, Stanford University, 1982: 60.

croppers and their families (Figure 14.6). ried males—and the terms (especially size of plot) needed to attract sharebenefits they would have to offer to attract wage labor—primarily unmar-

other tenure arrangements, this broad category encompassed true share the equipment and workstock in return for a share of the output. As with tenants who supplied everything but the land. They had secure legal tenure. crops ("standing rents"). Moreover, there was sharecropping, in which the wage rates, so fixed payment tenancy took two forms: money ("cash rent") or ried males, who presumably had few local ties. Just as there was diversity in landlord provided the land and managerial supervision and some or all of well as individuals. Wage contracts went overwhelmingly to young unmarspecify piece or task rates, and the contracts might cover groups ("gangs") as made frequently or only after harvest. Additionally, wage contracts might might involve time wages per day, week, month, or year. Payment might be labor and miscellaneous other farming inputs. Wage contracts, for example, ments in the South for combining the planter's land with the freedman's As a result, there was a tremendous diversity of institutional arrange-

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clusive hypotheses, such as risk-sharing arrangements and monitoring and might be explained by a variety of complementary rather than mutually ex-The result was a hodgepodge of different contractual arrangements that contracts could be modified by innumerable side payments and agreements. utation with some wealth and resources. In addition, any of these diverse of need), while the cash tenants were older, well-established families of repsons of reputation with families (who might supply additional labor in times little as one-third for the cropper. These contracts typically went to older pershares might range from perhaps two-thirds for the true share tenant to as There were also croppers who might supply nothing but their labor. Tenant

day-to-day activities of their tenants. Americans, but not so much that landowners could not supervise the volved a mix of the two systems, providing some independence to Africanwork hard or to maintain property carefully on their own. Sharecropping incash-rental agreements because they did not trust African-Americans to if these involved some risk. The landlords disliked the idea of arm's-length tested wage work in gangs and wanted some ownership or tenure rights even arrangement in the postbellum South as a compromise. The ex-slaves de-Sharecropping in its various forms emerged as the dominant tenure

he could always look for a new tenant. Competition among tenants thus that tenants might have produced greater yields through greater diligence, arrangements; they were renegotiated annually. If the landlord suspected work schedules. Sharecropping agreements, moreover, were not lifetime weather or price expectations, and no barrier stands in the way of adjusting trast, both parties have a clear stake in rapid adjustment to changes in mizing the value of output. If Under a sharecropping arrangement, by conthe two parties has a guaranteed income and thus no direct stake in maxiwell. Under either a wage contract or straight land rental contract, one of of leisure). However, adverse incentives exist under other arrangements as ference between the \$5 worth of cotton and the day wage (or shadow price in the fields. As a result, aggregate income (or welfare) is reduced by the difanything over \$2.50, the tenant would prefer to let the \$5 worth of cotton rot casual day labor market wage (or the cropper's shadow price of leisure) is shares, the expected gain to the cropper is only \$2.50. Consequently, if the vesting the remnants, will increase total crop output by \$5 worth. On half a sharecropper who knows that one more day's work in the cotton fields, harbecause it reduced production incentives. Consider, for example, the case of inefficient economic solution to the problem of how best to work the land It is alleged, however, that sharecropping (as opposed to renting) was an

solute residual claimancy of one of the parties under either a wage contract might force sharecroppers to work as hard as renters, but in general the ab-

or cash tenancy generated stronger incentives to maximize output. 12

could also be made to get tenants to finish specific tasks. new tenants who offered a competitive level of service. Cash side payments ways be thrown off the land at the end of the contract year, to be replaced by captured by the landowner. Tenants who shirked on maintenance could alperspective. The fruits of any significant productivity improvement would be proving breeding stock, and so on was effort wasted from the tenant's pensation, effort expended preventing soil erosion, repairing fences, imwith respect to land use. Without some security of tenure or the offer of com-Lack of security in tenure may also have generated adverse incentives

lord's ability to reduce labor productivity. while labor income fell, although ultimately market forces limited the landvalue of the marginal product of land (and the return to the landlord) rose tenant family to induce intensive cultivation. By making land the fixed factor and labor the variable one, as there was less land with which to work, the landowners adopted the strategy of limiting the acreage worked by a single is worked, the more money the landlord stood to make. Consequently, receiving a fixed share of the total crop, the more intensively the land an incentive to work it as labor-intensively as possible. With the landowner labor to offer. The owners of the now relatively scarce resource land had pation South. The ex-slaves had few marketable resources beyond their Even so, sharecropping was well suited to conditions in the postemanci-

stantial value and not lightly relinquished for marginal market gains. 14 civil justice system in return for deference and subservience, were of subprotected the black families from intimidation and an arbitrary criminal and age and paternalism from the landlord. These nonmarket services, which groups, however, African-Americans were less likely to move than others, perhaps because these longer-term residents were the recipients of patronwhether this was by choice or necessity is not known. Within specific tenure thus much more likely to have moved recently than whites, although found overwhelmingly among the ranks of the sharecropping tenants, were rate was less than 20 percent. 13 African-Americans as a group, who were to be there less than five years. Among tenant farmers the five-year persistence been on their land less than two years, and more than 60 percent had been In the early twentieth century more than a third of southern farmers had worked is the high degree of geographic mobility among southern farmers. landlord's ability to exploit his tenants. One measure of how well the market landlord's interest in long-term land investment, the market limited the Just as the market limited the ability of tenants to neglect completely the

Reid (1973). transactions costs and the creation of incentive to optimize land use in the absence of continu-10 Reid (1973), for example, stresses risk while Alston and Higgs (1981) emphasize the role of

¹² Alston and Higgs (1981).

¹¹ Alston and Ferrie (forthcoming)

acreage was mostly owned and operated by white family farmers. 18 county) by 1880. By 1880 only 9 percent of southern cropland was cultivated American and white, farmed about 40 percent of the land. The remaining Still, African-Americans achieved farm ownership only slowly. In Georgia, of whites in 1880 to perhaps one-sixteenth of the white per capita property by wage laborers on large farms while tenant farmers, both Africanpercent of the land in farms in Georgia and an area about the size of a for example, they owned fewer than six hundred thousand acres (about 2 holdings by 1910.16 This general pattern was repeated across the South.17 value of black property per person increased from just one thirty-sixth that late nineteenth and early twentieth centuries. In Georgia, for instance, the accumulated wealth, including real estate, more rapidly than whites in the whites, averaging about 2.7 percent per year. 15 Moreover, African-Americans crimination, incomes of black Americans grew more rapidly than those of and literacy rates were low. Despite the pernicious influence of racial disquisition of human capital. Most had known little other than unskilled labor, the right to the products of their future labor. Slavery had restricted their ac-Emancipation granted the ex-slaves nothing beyond their freedom and

since it is difficult to assert ownership rights over goods that have already been consumed, a good part of this difference may reflect the high risks of was perhaps 30 percent higher than the cash price (Table 14.3), However, leged high price of rural credit. For example, the credit price for foodstuffs well. 19 One way in which this monopoly power manifested itself was in the altract enforcement costs-merchants had to know their credit customers nearest town to do their provisioning—and (2) high market entry and conchants were able to exercise some degree of monopoly power because of (1) location advantages—farmers were naturally reluctant to travel beyond the inputs (on credit) to farmers who pledged their crops as security. These merchants became bankers by default, selling food, clothing, and agricultural make a rational and fair appraisal of the risks of such a loan. Thus local merbankers have had the knowledge of a tenant's reputation and abilities to to negotiate a \$100 bank loan against next autumn's crop. Nor would these had neither the time nor the skills to make a two-day trip to the county seat than among small farmers, particularly former slaves. Poor, small farmers war levels. Nowhere was the resulting lack of bank credit felt more keenly of banks after the war masks a sharp reduction in total bank assets from preple crop producers. The commodity credit system was shattered by the Civil seems to have been no shortage of short-term credit for cotton and other sta-War. By 1880, though, it had partially recovered. The growth in the number Although the South had relatively few banks before the Civil War, there

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TABLE 14.3

Food Prices for Southern Farmers, 1879-1880

Food	Cash	Credit	% Difference
Shelled corn (\$/bushel)	.765	.998	30
Bacon (\$/lb)	.080	.102	28
Food index $(1859 = 100)$	79.1	101.5	98
Overall cost of living			0
(1859 = 100)	86.2	99.6*	13
* If 60 percent of family purchases are made on credit	ue made on credit		700.000

bridge University Press, 1977): 218. Reprinted by permission of Cambridge University Press. Source: Roger Ransom and Richard Sutch, One Kind of Freedom (Cambridge, England: Cam-

and exited the business.20 extending credit to customers or in the pricing of that credit, for many failed many country shopkeepers must have made frequent errors of judgment in business should have kept any potential monopoly profits in check. Equally, than the potential number of customers, and the actual rapid entry into this siderable turnover in the business. There were few barriers to entry other rarely became wealthy. Few had a net worth over \$5,000 and there was consuch business. Indeed, despite these high interest rates, local merchants

on credit. There is, however, a far less sinister motive for country merchants and thereby ensuring that the farmer would be back next year needing food transactions cost of dealing in cotton as opposed to, say, corn. developed national and international market in cotton that lowered the to have preferred payment in cotton over other crops: There existed a finely because this tended to lock in debtors, reducing farm self-sufficiency in food Merchants insisted that debtors grow cotton to secure their debts, possibly ent sort of allocative inefficiency: overspecialization in cotton production. claim that country store credit created or at least exacerbated a very differnopolized—in this case agricultural credit. Ransom and Sutch, however, resource allocation by reducing the output of the product or service mostore credit. Under ordinary circumstances, such monopoly power distorts Suppose, however, that we allow some element of monopoly in rural

switched from being a net exporter of food to a net importer. This switch output more than doubled. With food output per person halved, the South from food to staple production was most marked among the smaller farmers 1880. Between 1850 and 1890, on the other hand, the ratio of cotton to corn clined from 29 bushels per person in 1860 to only 17.3 bushels per person in the Deep South, where the change was most dramatic, corn production deonage" was the marked decline in postbellum southern food production. In One important consequence of what Ransom and Sutch label "debt pe-

¹⁵ Higgs (1977, 1982)

¹⁶ Higgs (1982).

²⁰ Goldin (1979).

the economic bind in which they found themselves. meet their obligations) devoted an even larger share to cotton as a result of rented or sharecropped (the poorest farmers, who needed a cash crop to devoted a relatively high percentage of their acreage to cotton. Those who as their primary goal or were too isolated from markets. After the war they relatively little cotton, presumably because they had self-sufficiency in food and tenants. Before the war small farmers tended to grow a lot of corn and

strained by lack of suitable security debts other than marketable crops in the choice but to plant what the landlord ordered. Even other tenants were congrow the most lucrative crop:-cotton (Table 14.4). Croppers had little at the edge of subsistence could be sure of sufficient income to live on was to acreage in profitable market crops, the only way a small tenant farmer living enough corn to meet their family needs and then plant the remaining Whereas farmers with a potential income above subsistence would plant

tion possibilities of corn and cotton for a small farmer given his land, work-Consider the situation depicted in Figure 14.7, which shows the produc-

Value of Output per Acre of Cotton and Corn, 1866–1900 **TABLE 14.4**

	per	per Acre	Cotton Yield X
All	Cotton	Corn	Price + Seed - Nonlabor Costs
Arkansas	\$14.39	\$7.99	\$8.58
Ceorgia	22.00	9.80	18.95
Louisiana	15.24	6.71	8.88
Mississippi	21.68	9.67	16.20
North Carolina	17.98	8.82	12.52
South Carolina	18.60	6.89	11.16
Tennessee	17.37	6.88	10.39
Tevas	18.49	8.94	15.07
	21.32	11.01	18.82
Unweighted average	18.52	8.52	13.40
weighted average	18.25	7.68	11.70
Sources: Table taken from C :			

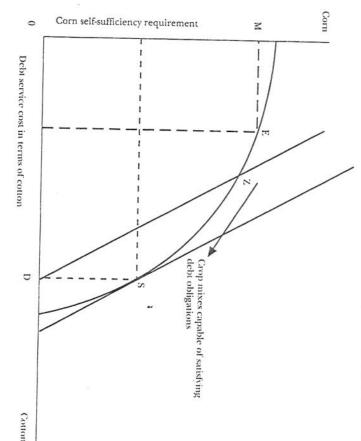
Government Printing Office, 1927). Prices of Farm Products Received by Producers, Statistical Bulletin no. 16 (Washington, D.C.: Acreage, Yield and Production 1866-1929" (mimeo, 1934); U.S. Department of Agriculture, U.S. Department of Agriculture, Bureau of Agricultural Economics, "Revised Estimates of Corn Office, 1899); U.S. Department of Agriculture, Agricultural Marketing Service, Cotton and Cotton Seed, Statistical Bulletin no. 164 (Washington, D.C.: Government Printing Office, 1955); Cotton Production," Misc. Series, Bulletin no. 16 (Washington, D.C.: Government Printing 36, Table 2.6. Data from U.S. Department of Agriculture, Division of Statistics, "The Cost of Sources: Table taken from Gavin Wright, Old South, New South (New York: Basic Books, 1986):

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FIGURE 14.7

Crop Mix Choice under Assumptions of Self-Sufficiency and Market Involvement



until harvest. Economic necessity thus dictated crop choice. has to borrow to buy corn at the inflated credit price so the family can eat Furthermore, since the farmer is now no longer self-sufficient, he probably his financial obligations. As a result, the farmer is forced to grow more conthis just generates sufficient cash to meet the debt obligation of OD, ton and less corn, producing at least as much cotton as at the point Z since meet the obligation. He cannot now both achieve self-sufficiency and meet that the farmer owes a debt that requires a cash income of at least OD to by E even though the expected profit-maximizing set is S. Suppose, however, then the safety-first farmer would produce the basket of goods represented closure might opt for self-sufficiency, what Gavin Wright and Howard Kunreuther call a safety-first strategy. If self-sufficiency requires OM of corn, dependence and avoid debt with its attendant risks of forced sale or fore stock, and implements. A farmer who wished to preserve his financial in-

power over rural credit when entry into the business was so easy or that they seems unlikely that country stores could have exercised much monopoly cism in part because they eschew simple neoclassical economic theory. It the Wright-Kunreuther hapless-victim theory have provoked vigorous criti-Both the Ransom-Sutch lock-in to cotton as a condition for credit and

changes in price cost the South dearly, at least partially explaining the lag in southern income growth. in a crop with a unit elastic demand resulting in invariant income with mixes so dramatically. Whatever the explanation, increasing specialization groups rather than the larger owner-operators that changed their crop small loans just as easily as measuring monopoly power. Relative price shifts free to choose their own crop mixes. This might well explain why it was these to plant more cotton and less corn. Moreover, tenant and croppers were not rather than changes in attitudes toward risk can explain why farmers chose may indicate the high risk of default and high transactions costs for very were successful in their efforts since exit was so common. High interest rates

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waste and reduced growth rates. South's denial of equal rights to former slaves may have led to allocative often more difficult to eradicate. There were, however, ways in which the such discrimination does not reduce economic efficiency. It is therefore happiness while, presumably, giving whites more satisfaction. In general happiness. Such discrimination allowed African-Americans less personal or buy a house in a white neighborhood, for example—are largely distrivalue. Most aspects of discrimination—the right to sit at the front of the bus tion that affect only personal happiness and those that affect the creation of Economists find it useful to distinguish between those kinds of discriminabutive in the sense that they mainly affect the distribution of personal

to acquire the necessary capital with which to work the land. Doubtless some African-American farmers were able to buy land, they were often still unable cropper to share tenant, let alone to cash tenant or owner, and where pendence as an owner, African-Americans found it difficult to advance from elsewhere and among whites tenancy was a stepping-stone to personal indeable to accumulate real estate rather more rapidly than whites. But whereas many generations' accumulated savings. Indeed, African-Americans were position of owning nothing while landownership is often the product of erate them as neighbors. The failure of African-Americans to buy their own amass the necessary cash, whites were often reluctant to sell to them or to tol-Americans could rarely borrow money to buy land, and even when they did land does not itself prove discrimination, for ex-slaves were starting from the racism blocked the path to personal advancement: landownership. Africantural Jobs since few were literate or possessed marketable skills. Nonetheless, mained in the South after the war would have worked in unskilled agriculalmost certainly an important source of waste, but it is probable that even if there had been no racial discrimination, most African-Americans who re-Job discrimination is dealt with in the chapter on labor markets. It was

> allowing them to rest about double the acreage each year.21 ods. Owner-operated white farms used nearly twice the acreage per worker. opportunity to raise productivity by means of land-intensive farming meth-African-American-owned farms did. African-Americans, moreover, had less 37 percent of white-owned farms purchased fertilizer, only 21 percent of owned farms was little more than half that on white-owned farms; whereas of land. But the value of farm implements per acre in crops on blackof the differences were accounted for by the different types and locations

made since emancipation and increased economic competition between ment reflected envy at the remarkable gains that African-Americans had African-Americans their rights through disenfranchisement. This moveblacks and whites over jobs and resources. 24 around the turn of the century was part of a larger movement to deny paid less than white teachers with similar qualifications. The switch in policy African-American teachers were also the victims of discrimination, being ference in the quantity of education between the two groups because on a black student as on a white.²³ These differences may overstate the difspent on white students, while Louisiana spent less than one-fifth as much were about half those for white students in 1890, but by 1910 Florida and and Mississippi, for example, expenditures per African-American student to become in the early years of the twentieth century. In Florida, Louisiana, Mississippi spent little more than a quarter as much per black student as they to expenditures per white student was relatively much more equal than it was tween the two groups, the ratio of expenditures per African-American pupil North Carolina in 1890. Even where expenditures were quite different beschool expenditures per pupil were equal regardless of race in Alabama and states were relatively equal for white and black students.²² Data show that that educational expenditures per pupil in the 1880s in many southern education, but poverty and the need for many hands to make light work on the black-operated farms of the rural South. Indeed, it is interesting to note children. The problem was not one of lack of interest in and concern with school-age population were perhaps 50 percent higher than among black in the late nineteenth century school attendance rates among the white more than three-quarters of the black population aged ten and over was illiterate, compared with only about a fifth of the white population. Similarly, gave farmers access to information useful in raising productivity. In 1880 and skill acquisition. The ability to read, write, and do simple arithmetic long-term inefficiency created by racial barriers to investment in education Compounding this "static" allocative inefficiency was the "dynamic"

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²¹ Ransom and Sutch (1977)

²² Higgs (1977); Margo (1990). ²³ Margo (1990). ²⁴ Higgs (1977); Kousser (1974); Margo (1990).

The Plight of the Ex-Slave

In spite of social and legal discrimination, the economic status of African-Americans surely improved with the end of slavery. By assuming that exslaves were able to obtain the equivalent of a competitive wage—that is, that ex-slaves were not exploited in the neoclassical sense—Ransom and Sutch calculate that the typical per capita income for an African-American share-cropping family was 43 percent higher than that for slaves. Slaves on large plantations had enjoyed more material benefits; hence they gained less from the transition to freedom—about 30 percent (see Table 14.5). Using Fogel and Engerman's computation of typical slave incomes generates somewhat different results. Their more generous estimates for plantation slaves put the material gains to freedom at a much lower level. Indeed, ex-slaves who had lived on large plantations would seem to have lost ground as a result of emancipation.

However, any possible ambiguity in the direction of change in income disappears by imputing a value to the increase in leisure time freed slaves chose to consume (see Table 14.6). The low estimate, which assumes that African-Americans reduced their average work input by 28 percent, brings per capita income equivalence to \$57.75; the high estimate, based on a 37 percent labor time reduction, puts the figure at \$65.91. The narrowest margin—the one between Fogel-Engerman's plantation slave and an ex-slave with an income equivalent to \$57.75—suggests a gain of at least 34 percent.

Ransom and Sutch simply assume that African-American sharecroppers received the full competitive wage. But there is little doubt that landowners made every effort to strangle competition for labor, barring African-American entry into some occupations and passing vagrancy laws that restricted African-Americans from searching for alternative employment. Landowners were also guilty of behaving paternalistically—that is, dispensing nonmarket goods, such as justice and protection, to those deemed "worthy" while denying them to the "unworthy." 25

If these policies were successful, then landless African-Americans whose market alternatives were limited by racism and overt racial hostility might have been paid real wages below those dictated by labor productivity. One test of this is to compare the share of output that would accrue to southern agricultural labor in a competitive market with sharecroppers' allotments. If croppers received less than their competitive share, this could be interpreted as evidence of exploitation. The data, however, suggest that labor's share should have been between 21 percent (Texas) and 36 percent (Alabama), with an average predicted share of 31 percent for the South as a whole—well below the 50 percent specified in many sharecropping con-

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TABLE 14.5

Black per Capita Income (1859 dollars)

Black

	Fogel-Engerman	Ransom-Sutch	Sharecroppers
	(1859)	(1859)	(1879)
Large plantations	42.99	32.12	41.39
Average	34.13	28.95	

Sources: Robert Fogel and Stanley Engerman, Time on the Cross II (Boston: Little, Brown, 1974): 159; Roger Ransom and Richard Sutch, One Kind of Freedom (Cambridge, England: Cambridge University Press, 1977): 3, 5. Reprinted by permission of Cambridge University Press.

Black per Capita Income-Equivalent Welfare (1859 dollars)

	Large Plantations	Sharecroppers (1879)	% Change 1859–79
Material income	32.12	41.39	29
Value of additional			
leisure time			
Low estimate		16.34	
High estimate		24.52	
Low estimate	32.12	57.75	80
High estimate	32.12	65.91	105

Source: Roger Ransom and Richard Sutch, *One Kind of Freedom* (Cambridge, England: Cambridge University Press, 1977): 7. Reprinted by permission of Cambridge University Press.

tracts. Thus it seems that landlords were unable to exploit their tenants by paying an implicit wage below the competitive market wage. Exploitation, however, may still have been possible if tenants were forced to farm very small plots of land, thus constraining labor productivity rather than pushing wage payments below their competitive level.²⁷

Overall, with a century's hindsight, it seems that markets performed reasonably well, at least when they were given a chance. White political control—maintained by restrictive voting laws and terror—which limited access to education and the provision of other local services and public goods, seriously handicapped a large fraction of the population. The South's unimpressive economic performance in the first few postwar decades was almost

²⁵ Alston and Ferrie (forthcoming).26 DeCanio (1974).

substantial movement of labor into manufacturing or out of the region encapita economic growth depended upon diversification and, most probably, ex-slaves with property comparable to that of landed whites or to provide aceveryday life. But the great portion of blame must go to the failure to provide tion is attributable to economic exploitation and to racial discrimination in tirely. In part the continuing misery of African-Americans after emancipaflexibility. Land and labor remained locked into staple production, but per economy. The real failing of the southern economic system was its lack of cess to the education and jobs vital to social mobility. Nor could the South control the declining fortunes of cotton in the world inevitable: Free African-Americans could not be expected to work like slaves

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