CHAPTER THREE

meat, fish, fowl, and/or milk therefore represents a thoroughly rational preference that arises from the interaction of human biology and the nutritive composition of alternative foods. It will never be in the best interest of any country to eat less animal food (as distinct from less animal fat and cholesterol) as a health measure. To return to Poland, no one can blame a nation that does not rush to embrace such a fate. Perhaps someone should tell the Poles that they would be better off eating leaner meats, more fish, more poultry, fewer eggs, more skim milk, and less butter and lard. But woe to the would-be savior of socialism who decides to appease Poland's meat hunger by telling people to go home and eat more bread and beans.

## THE RIDDLE OF THE SACRED COW

SINCE ANIMAL FLESH is so nutritious one would expect every society to stock its larder with the meat of every available animal species. Yet exactly the opposite seems to prevail. All over the world people in dire need of the very proteins, calories, vitamins, and minerals that meat provides in such concentrated form refuse to consume certain kinds of flesh. If meat is so nutritious, why are so many animals bad to eat? Take India, for example, and the most famous of all irrational foodways, the ban on the slaughter of cattle and the consumption of beef.

There is a section of India's federal constitution called the Directive Principles of State Policy which sets forth guidelines for laws to be enacted by state legislatures. Article 48 calls for prohibiting "the slaughter of cows and calves and other milk and draft animals." All but two Indian states—Kerala and West Bengal—have passed some form of "cow protection" law with "cow" meaning both male and female members of Bos indicus, India's native species of cattle. But Hindu holy men and numerous cowprotection societies continue to agitate for a total ban on cattle slaughter. In 1966, rioting by 125,000 nude cow-protectionists threatened to shut down the Indian parliament in New Delhi, and in 1978, a Hindu leader, Acharaya Bhave, provoked a national

4

crisis by threatening to fast until Kerala and West Bengal enacted antislaughter legislation.

want to kill or eat them. India also has the distinction of possessing might reasonably be attributed to the fact that no one seems to million Bos indicus (plus 50 million buffalo), a situation which and the aversion to beef. India also has 700 million people. Since try's fields and highways and city streets-a situation which, if half of the total are "useless" creatures that roam over the counin the world. According to some estimates one-quarter to onecattle seems to be "plainly contrary to economic interest." Has in need of more proteins and calories, the refusal to kill and eat no one denies that much of this huge human population is sorely true, one might again reasonably attribute to the ban on slaughter the largest number of sick, dry, barren, old, and decrepit cattle have no rational justification? idiom denoting stubborn adherence to customs and practices that not the very phrase sacred cow passed into common usage as an India has the largest number of cattle in the world—about 180

On one level of explanation, cow protection, beef avoidance, and the large number of useless cattle can all be safely attributed to religious zeal. Hinduism is the dominant religion of India, and cattle worship and cattle protection lie at the very heart of Hinduism. Few Westerners realize, for example, that one of the reasons for the saintly reputation and mass appeal of Mohandas Gandhi is that he was an ardent believer in the Hindu doctrine of cow protection. In Gandhi's words: "the central fact of Hinduism is cow protection. . . . Cow protection is the gift of Hinduism to the world . . . Hinduism will live as long as there are Hindus to protect the cow."

Hindus venerate their cows (and bulls) as deities, keep them around the house, give them names, talk to them, deck them with flowers and tassels, let them have the right of way on busy thoroughfares, and try to place them in animal shelters when they become sick or old and can no longer be cared for at home. Shiva, the avenger god, rides the heavens on Nandi, the bull, whose likeness appears at the entrance to every temple dedicated

to Shiva. Krishna, god of mercy and childhood, perhaps the most popular deity in India today, describes himself in Hindu sacred literature as a cowherd, protector of cows, who are his wealth. Hindus believe that everything that comes out of a cow (or a bull) is sacred. The priests make a holy "nectar" composed of milk, curds, butter, urine, and dung which they sprinkle or daub on statues and worshippers. They light the temples with lamps that burn ghee, clarified cow's butter. And they bathe temple statues daily with fresh cow's milk. (In contrast, buffalo milk, butter, curds, urine, and dung have no ritual value.)

At festivals commemorating Krishna's role as protector of cattle, priests mold the god's likeness out of cattle dung, pour milk over the navel, and crawl around it on the temple floor. When in due course the image must be removed, Krishna does not tolerate human hands to break it up. A calf must trample on it first, for Krishna does not mind his image being walked on by his favorite creature. At other festivals, people kneel in the dust raised by passing cattle and daub their foreheads with the fresh droppings. Housewives use dried cattle dung and cattle dung ashes to clean and ritually purify their floors and hearths. Village doctors even collect the dust in the hoofprints of cattle and use it for medicinal purposes. Just to look at a cow gives many Hindus a sense of pleasure. The priests say that to take care of a cow is in itself a form of worship, and that no household should deny itself the spiritual enjoyment which comes from raising one.

Cow protection and cow worship also symbolize the protection and adoration of human motherhood. I have a collection of colorful Indian pinup calendars depicting jewel-bedecked cows with swollen udders and the faces of beautiful human madonnas. Hindu cow worshippers say: "The cow is our mother. She gives us milk and butter. Her male calves till the land and give us food." To critics who oppose the custom of feeding cows that are too old to have calves and give milk, Hindus reply: "Will you then send your mother to a slaughter house when she gets old?"

The sacredness of the cow is linked in Hindu theology to the doctrine of transmigration. Hinduism portrays all creatures as

souls which have risen or fallen from various stages of progress toward Nirvana. It takes eighty-six transmigrations to rise from a devil to a cow. One more transmigration and the soul acquires human form. But the soul can always slip back. The soul of a person who kills a cow can expect to return to the lowest rung and start all over again. Gods live inside of cows. Hindu theologians put the number of gods and goddesses in a cow's body at 330 million. "Serving and praying to the cow will lead to Nirvana for 21 generations to come." To assist a departed loved one's soul in its journey to salvation, relatives donate money for feeding herds of cows kept by Hindu temples. They believe that the dead must cross a fiery stream and that these donations buy the departed the right to hold onto a cow's tail while swimming across. For the same reason, orthodox Hindus request that they be given a cow's tail to cling to during their dying moments.

The cow is a political as well as a religious symbol. For centuries, Hindus and Moslems have been whipping up communal strife with stereotypes of Moslems as cow-killers and Hindus as tyrants bent on forcing everyone to accept their peculiar foodways. The fact that the raj from England was an even more prodigal cow-killer and beef eater than the Moslems served as the focus for waves of civil disobedience which led to India's independence after World War II. In the earliest days of the new state the dominant Congress party preempted the picture of a cow and a calf as its national logo, immediately giving its candidates an advantage among illiterate voters who vote by making an X over the picture of their choice. The opposition parties soon struck back by spreading the rumor that a cross placed over the Congress party's logo was a vote for slaughtering one more cow and calf.

As anyone can see, all this is a matter of religion. Were Americans to believe that Nandi is Shiva's vehicle, that Krishna is a cowherd, that there are eighty-six reincarnations from devil to cow, and that each cow contains 330 million gods and goddesses, they wouldn't go around asking, "Where's the beef?" But the rejection of beef because of Hindu beliefs is the puzzle, not the

answer. Why is cow protection "the central fact of Hinduism"? Most major religions regard cattle as good to eat. Why is Hinduism different?

Both politics and religion obviously play a role in reinforcing and perpetuating the beef and slaughter taboos, but neither politics nor religion explains why cattle slaughter and beef eating have achieved symbolic prominence. Why the cow and not the pig, horse, or camel? I do not doubt the symbolic power of the sacred cow. What I doubt is that the investment of symbolic power in one particular kind of animal and one particular kind of meat results from an arbitrary and capricious mental choice rather than from a definite set of practical constraints. Religion has affected Indian's foodways, but India's foodways have affected India's religion even more. My justification for saying this lies in the history of Hinduism.

chapter before this, the Vedas were one of the early warriorpastoral peoples of Europe and southwestern Asia among whom times the Brahman caste's religious duties centered not on proneither spurned beef nor protected the cow. In fact in Vedic merchants or Vaisyas, and the Sudras or menials. The Vedas the priestly Brahmans, the ruling warrior chiefs or Kshatriyas, the recognized the four main castes of modern Hinduism including from 1800 B.C. to 800 B.C. Vedic society and religion already Vedas, a cattle and farming people who dominated northern India Hinduism—the Rig Veda—celebrate the gods and customs of the always the central fact of Hinduism. The earliest sacred texts of meat-eating feasts. and power. Whole villages and districts participated in these followers as a material reward for loyalty and as a symbol of wealth ritual slaughter of animals and sumptuous feasting on meat went tecting cows but on slaughtering them. As I mentioned in the together. On ceremonial occasions, Vedic warriors and priests, like the Celts and Israelites, generously distributed meat to their The central fact of that history is that cow protection was not

While the Vedas permitted animal slaughter only as a religious rite carried out under the supervision of Brahman priests, this

ably did little to inhibit the rate of animal slaughter. Battlefield residue. And since no culture is ever at a loss for ceremonies, consumption. The gods conveniently ate the spiritual portion of restriction did not limit the amount of meat available for human victories, marriages, funerals, and visits from allies all called for confining the consumption of meat to ceremonial occasions probthe animal, while the worshippers dined heartily on the corporeal suitable for particular ritual occasions bears a close resemblance paid by the Brahman priests to the size, shape, and color of cattle animal sacrifice and lavish meat eating. The compulsive attention a five-year-old humpless dwarf bull; a thick-legged cow; a barren specified by the sacred Hindu texts included: a drooping horned taining to similar ancient Israelite sacrificial feasting. The animals to the detailed instructions found in the Book of Leviticus percow; a cow that has recently miscarried; a three-year-old hump-All this suggests that the Vedas sacrificed cattle more often than less dwarf heifer; a black cow; a two-colored cow; and a red cow. bull with a white blaze on the forehead; a polled ox; a white ox; other animals and that beef was the commonest flesh consumed in northern India during most of the first millennium B.C.

more people can be fed by limiting meat eating and by concendairying. Simple energy relationships underwrote the transition: semipastoralist way of life gave way to intensive farming and forests shrank, grazing lands were put to the plow, and the old large herds of cattle as a reserve of wealth. Population grew, came to an end when the Vedic chieftains could no longer keep consumed by animals and then the animals are consumed by plant foods. As I mentioned in the last chapter, if grains are trating on dairying, growing wheat, millet, lentils, peas, and other of protein are lost for human consumption. Dairying can cut these convert feed into edible meat calories; and they convert feed into into calories five times more efficiently than modern beef cattle people, nine out of every ten calories and four out of five grams edible protein six times more efficiently than modern beef cattle losses by a significant amount. Modern dairy cattle convert feed The period of lavish cattle slaughter and general beef eating

These figures include the calories and proteins in the edible portion of the cow's carcass at the end of its life, but as I'll show in a moment, the beef-eating taboo probably never prevented the cow from making a terminal contribution in the form of meat. As long as population density remained low, cattle could be grazed on uncultivated land and per capita beef production could be maintained at a high level. With denser human populations, cattle came to compete with humans for food, and their meat soon became too costly to be shared with the traditional openhanded generosity of the Vedic chieftains at public beef-feasting sacrificant.

Gradually the ratio of cattle to humans declined and with it the consumption of beef, especially among the lower castes. But there was a Catch-22 in the process: cattle could not simply be eliminated to make way for more people. Farmers needed oxen to pull plows, which were needed in turn to penetrate the hard-packed soils found throughout much of northern India. In fact, it was the use of ox-drawn plows to break the plains bordering the Canges River that started the whole cycle of population increase and the shift away from meat eating in general and of beef eating in particular. Naturally, all ranks of society did not give up their beef-eating habits at the same time. The privileged Brahmans and Kshatriyas continued to slaughter cattle and gorge themselves on beef long after it was impossible to invite ordinary people to share in their good fortune.

By about 600 B.C. peasant living standards were in decline, and wars, droughts, and famines inflicted great suffering. The old Vedic gods seemed to be failing, and new religious leaders found ordinary people increasingly hostile to animal sacrifices both as a symbol and as a material manifestation of the inequalities of the caste system.

Out of this stressful social and economic situation arose Buddhism, the world's first nonkilling religion. Gautama, later known as the Buddha, lived between 563 B.C. and 483 B.C. His principal teachings reflect the suffering of ordinary people and were directly opposed to the Hindu beliefs and practices of his times.

As set forth in the Buddhist Eightfold Way—the equivalent of Judaism's Ten Commandments—Buddha condemned the taking of life in animal or human form, banned animal sacrifice, condemned butchers, and substituted meditation, vows of poverty, and good deeds for ritual and prayers as the means of gaining salvation. Buddha did not single out beef eating as a special evil, but since cattle were the principal objects of ritual slaughter, his condemnation of animal sacrifice implies that beef eaters were among the worst offenders.

remains for fertilizer. attendants open the room, shovel out its contents, and sell the room is full, they seal it tightly. After ten or fifteen years the insuch a room carefully preserved dirt and sweepings containing capital of Gujarat, devout Jains from all over the city bring to or injured cats, dogs, rats, birds, and cattle. The most remarkable maintain numerous animal shelters where they take care of stray or spiders that might accidentlly get stepped on. They also wear habitants are presumed to have died a natural death, and the ings together with a small amount of grain inside, and when the insects in need of protection. Attendants place the dirt and sweepinhalation and destruction of mosquitos or flies. Jains to this day gauze masks over their nose and mouth to prevent the accidental antikilling sects, has survived into the present and has numerous suffering and environmental depletions because several similar Jain shelters are rooms set aside for insects. In Ahmadabad, the broom-wielding assistants go ahead to sweep away small insects their priests cannot walk down a path or a street without having heroic measures to avoid killing or eating any form of animal life. temples serving about two million devotees in India. Jains take India at the same time. Jainism, the best known of these lesser nonkilling religions equally opposed to animal sacrifice arose in I feel confident that the rise of Buddhism was related to mass

The Buddhist ban on the consumption of beef implicit in the opposition to cattle sacrifice must have resonated with the aspirations of the poorer farmers. At a time when ordinary people were starving and in need of oxen to plow their fields, the Brah-

cannot say precisely how the Brahmans and Kshatriyas continued animal from which it comes.) out the practice of animal sacrifice. (As I mentioned, Buddhists cattle from being slaughtered and eaten, he did attempt to stamp argument that beef should not be eaten because the gods had animals to the temples. Traces of a "let-them-eat-cake" type of once the peasants were unable or unwilling to donate surplus cation, or other coercive measures would have been necessary to obtain cattle for their gluttonous feasts, but taxation, confiscan eat meat as long as they are not responsible for killing the became a follower of Gautama. Although Asoka did not prevent der of the Maurya Dynasty and the first emperor of all India, appeal, the rulers of India's earliest Ganges River empires let very well be, but I shall eat of it nevertheless if the flesh be given cattle cosmic power, a Brahman sage replied: "That may arrogance show up in some early Brahmanic texts. Against the mans went on killing cattle and getting fat from eating them. I especially favored when in 257 B.C. Asoka, grandson of the founthem flourish and even encouraged their spread. Buddhism was tender." Recognizing that the nonkilling religions had great mass

rein to the popular tendency to worship cattle and to identify members of the Brahman caste. The Brahmans were able to gain of Hinduism as well as the main source of animal protein for themselves up as the protectors rather than the destroyers of struggled for possession of the stomachs and minds of the Indian or comparable deities, being directed by Gautama's example to attempted a similar apotheosis of cattle nor worship of Krishna Krishna and other gods with domestic animals. Buddhists never an advantage over the Buddhists because they could give free bolic acts. Milk, not meat, now became the principal ritual food cattle. The gods, they argued, did not eat meat, so the sacrifices the principle of nonkilling—known today as ahimsa—and set overcame the Rig Veda's obsession with animal sacrifice, adopted people. Hinduism eventually won, but not before the Brahmans described in the Rig Veda were merely metaphorical and sym-Over the course of nine centuries, Buddhism and Hinduism

seek salvation through meditation rather than by prayers. Buddhism's popular base began to erode, and by the end of the eighth century A.D. Gautama's religion disappeared entirely from the land of its birth.

The account I have just given of the struggle between Hinduism and Brahmanism was first pieced together by Rajandra Mitra, a great Sanskrit scholar of the late nineteenth century. This is what he wrote in 1872:

When the Brahmans had to contend against Buddhism which emphatically and so successfully denounced all sacrifices, they found the doctrine of respect for animal life too strong and too popular to be overcome, and therefore gradually and inperceptibly adopted it in such a manner as to make it appear as part of their [teachings].

a more popular religious doctrine. It is no accident that India is able to co-opt a more productive system of agriculture as well as cow protectors and by abstaining from beef, the Brahmans were very small amounts of feed and fodder. Contrary to popular sterenowned for their ability to render service as plow animals amid growing human food crops. The density of the human population graze on planted pasture nor on any lands which can be used for beef-eating taboos is indicative neither of waste nor folly. They Indian countryside under the protection of the antislaughter and reotypes, the presence of large numbers of these animals in the heat, drought, and other adverse conditions while consuming the home of hardy humpbacked zebu breeds which are worldseldom compete with humans for resources since they seldom rations of oilcakes pressed from humanly inedible residues of for work. In between stints of plowing they eat stalks, chaff, animals are kept in a semistarved condition until they are needed long ago became too great for any such luxuries. Instead these have great stamina, and literally work until they drop dead, which cottonseed, soybeans, and coconut. They are resistant to disease, leaves, and household garbage. At plowing time they get extra What I would add to Mitra's brilliant insight is that by becoming

usually does not happen until they have rendered a dozen or more years of grueling service. Farmers value their oxen not only for traction power but also for the fertilizer and fuel they produce. Cattle manure is still India's main source of fertilizer. In addition, lack of wood, coal, and fuel oils obliges millions of Indian housewives to depend upon dried cattle dung for cooking. When employed for this purpose, the dung produces a clean, steady, odorless flame that requires little attention and is well suited for simmering vegetarian dishes.

operations without standby animal power. Some evidence also number of tractors in India since 1968, there has been no recost of using animal traction. Despite a significant increase in the or rent the machines. But similar provisions also easily lower the can only be rationalized if elaborate provisions are made to lease placing them with new breeds of fast oxen. many tractor owners are now trading in their machines and reexists which indicates that after a period of initial enthusiasm, that repair services and spare parts remain too precarious to risk tractors have become most common. The explanation for that is duction in the number of draft animals, even in the regions where The majority of Indian farms are very small, and the use of tractors that tractors are more efficient than oxen only on very large farms. the tractor exceeds the hourly cost of a pair of oxen. This means than nine hundred hours per year, the hourly cost of operating can plow a field almost ten times faster than a pair of oxen, the throughout most of India. While a thirty-five-horsepower tractor per unit of crop produced under the conditions which prevail the investment in the animals. Unless the tractor is used for more initial investment in the tractor is over twenty times greater than tractors versus oxen shows that the animals are more cost-efficient ever been carried out to determine the relative efficiency of tractors to pull plows? Not at all. Virtually every study that has But nowadays isn't it terribly inefficient to use oxen instead of

In order to have oxen, one must have cows, and in the traditional regimen, the prime function of cows is to give birth to cheap, hardy oxen. Milk and dung are valuable by-products which

THE RIDDLE OF THE SACRED COW

help pay for the cow's upkeep. Even more than oxen, cows play the role of village scavengers, subsisting on straw, chaff, garbage leaves, patches of roadside grass and other substances that humans cannot digest.

the consumption of essential nutrients. enhances rather than diminishes the long-term effectiveness of solve to preserve their breeding stock as long as possible, it could not resume the agricultural cycle when conditions imthe agricultural system and reduces caste-based inequalities in proved. To the extent that the beef taboo strengthens their reserving the life of their temporarily useless cows or oxen, farmers caused by prolonged dry seasons and droughts. Without preporarily barren or emaciated animals during periods of stress slaughter itself, but by counteracting the temptation to eat temutes to the solution of this problem, not only by preventing ritual consumption remains an asset rather than a liability. One of the for meat. The religious proscription against beef eating contribtritionally more useful alive than dead in order to satisfy a craving principal problems confronting this system has always been the ably good health, the Hindu ban on cattle slaughter and beef tendency to slaughter animals which are energetically and nusystem burdened with supporting a dense population in reasonconsumption? I doubt it. As part of a preindustrial agricultural bitrarily reduce the amount of animal foods available for human Does the beef-eating, cattle-slaughter ban significantly and ar-

Although sacrificial cults based on slaughter and beef consumption are a thing of the past, modern Indian and foreign entrepreneurs itch to get their hands on India's "surplus" cattle for slaughter and sale overseas, especially to the oil-rich, meathungry nations of the Middle East. To the extent that the Hindu aversion to beef helps to prevent the development of large-scale domestic or international markets for Indian beef, it continues to protect the typical smallholder from bankruptcy and landlessness. Unfettered development of large-scale beef markets would inevitably push up the price of Indian cattle to the levels of international beef prices; cattle feeds and supplement would be de-

voted to raising beef; and small farmers would find it increasingly difficult to raise, rent, or buy animals for plowing. A few traders and wealthy farmers would reap the benefits while the rest of the farming population would sink to a lower level of production and consumption, as the acreage diverted to feeding animals rather than people increased.

sex, allowing whichever they needed most to suckle longer at erately shorten the life of any of their beloved calves. But they did admit that they took better care of the locally more useful crepancy, they insisted that no one in their village would delibcows or more oxen. When I asked farmers to explain this dispending on whether the local farmers want to end up with more have drastically different mortality rates in differing regions desouth. Interregional trade does not exist on the requisite scale. Trivandrum, Kerala, shows rather that male and female calves Research conducted by the Center for Development Studies in brought about by breeding oxen to the north and cows to the is no chance that this inversion of cattle sex ratios has been numbers of cattle in the two regions are widely discrepant, there which they have no use. This is shown by the finely tuned adfarmers raise three times as many cows as oxen. Since the total India where rice is the principal crop, and the typical half-acre are almost twice as many oxen as cows. But in parts of southern large, farmers concentrate on raising cattle for plowing, and there example, where wheat is the major crop and farm holdings are have remarkably different cattle sex ratios. In northern India, for of a farm, the pattern of rainfall, the crops grown, and the proximity to cities where milk can be marketed, different regions their needs and circumstances. Depending on the average size justments they make in the ratio of oxen to cows according to farmers systematically rid themselves of most of the animals for in the eyes of their owners. Despite the ban on slaughter, Hindu plus" and "useless" cattle is that the animals which Western postage-stamp" farms are too small to support plow animals, agronomists regard as surplus or useless are not surplus or useless Another problem with the scheme for slaughtering India's "sur-

of getting rid of unwanted animals, but the calf's slow demise has a definite payoff for its owner. Since most of India's cattle are not milk breeds, Indian cows will not "let down" and give milk unless they are stimulated by the presence of their calves. What the farmer is doing in keeping an unwanted calf alive in a semistarved condition therefore is minimizing the cost and maximizing yields of its mother's milk.

and resell them at local fairs. Many of these animals eventually who as a result enjoy a lucrative monopoly over the slaughter whose religion does not inhibit them from such activities and end up being butchered legally or otherwise by other Moslems them to Moslem traders, who remove the animals from the village method for ridding themselves of unwanted animals. They sell somewhat unwittingly as "mutton," a catch-all label which helps a considerable amount of cattle flesh either knowingly as beef or business. Moslems, Christians, and lower-caste Hindus purchase and neighbors. But even before the arrival of the Moslems in the keep the peace between Moslems and their Hindu customers gupta II in A.D. 465 equated the crime of killing a cow with the eighth century A.D., similar beef-eating segments of the popuof Buddhism and Hinduism who were the targets of Chandrapeople who rejected both the ban on beef and the reverence for crime of killing a Brahman priest. This implies that there were lation must have existed. A royal edict issued by King Chandragupta's edict. Tantrism presents a persistent countercurrent to Brahmans. Perhaps it was the followers of the Tantric branches the ascetic, contemplative, and monastic mainstream of Indian religion and philosophy. Tantrics seek oneness with the universe and ritual sexual intercourse. through eating meat, drinking alcohol, taking drugs, dancing In modern India, Hindu farmers have recourse to an additional

To the beef-eating Tantrics, Moslems, Christians, and other non-Hindus, we must add the members of various untouchable castes who consume beef in the form of carrion. Millions of Indian cattle die each year from a combination of neglect and natural

causes. The corpses become the property of carrion eaters, who are called in by higher castes and who skin and then consume the edible parts. Boiling the meat eliminates most of the danger. Of course, the amount of beef they get per animal is only a fraction of what they could obtain from a fat, healthy steer. But untouchables cannot afford to eat meat from fat, healthy steers, and even small amounts of meat help to improve their meager diet.

animal owner's viewpoint—must be weighed against the advancrops, the loss-if it can be called that from an impoverished sometimes invade cultivated fields and destroy someone else's encourage what their animals are doing. Although "strays" may cities. But almost all of these strays have owners who know and marginal rations derived from village waste, roadside grass, water of the peasant population. Why is it the poorest peasants who cost-efficient and vital asset for the economically weakest segment argument is that most of the less productive cows-cows that are off or shipped overseas to everyone's benefit. The flaw in this cows rather than the actual 54 million cows which now exist. This tages of the more socially responsible forms of scavenging. blocking traffic, and begging and stealing from food stands in the for a good deal of their subsistence that creates the impression hyacinths, and the leaves of trees. It is the fact that cattle scavenge these cows are ridiculously low, they nonetheless represent a the poorest farmers. While the calving rate and milk yield of neither breeding regularly nor giving much milk—are owned by beef-eating taboo, 30 million cows are surplus and could be killed led him to conclude that largely as a result of the slaughter and omist calculated that India's 72.5 million draft oxen would require culling, beef eating, and carrion eating leave us with? One econthat useless stray cattle are wandering all over the landscape, little land, it is they who are forced to feed their animals on keep the bulk of the most unproductive cows? Because owning for maintenance only 24 million productive well-fed breeding Just how many "useless" and "surplus" animals does all this

Despite the semistarved condition of most of the females, the hardiness of their zebu ancestry shows through, and many "bar-

streets of Calcutta. the exodus of landless families who have no place to go but the cows is tantamount to getting rid of surplus and useless peasants. farmers an extra toehold on their land, possibly saving them from of cows properly and to get rid of the underfed specimens. But contribution. Of course, from the point of view of modern animal the clutches of the moneylenders and from being forced to join To be able to own even one cow, however emaciated, gives poor there is another point of view: getting rid of surplus and useless or as a means of acquiring oxen for the first time adds to the cow's of the poor by a third or more. The birth of a male calf which milk, plus dung, yields a profit boosting the household income husbandry, it would be far more efficient to feed a smaller number they may rear as a down payment on a replacement for their oxer three liters of milk a day, the combined value of the calves and produces a calf every three or four years and gives only two or ren" cows sooner or later calve and give milk. Even if a cow only

claims a shelter animal, its life expectancy is not very great. Indian of charitable donations. And in both instances, unless someone the ASPCA, for example, must also balance its books by means dens. In this regard they resemble animal shelters in the West keep strays off the streets and out of people's farms and garthe only motivation for making contributions. Jain animal shelters nations of feed and money to balance their books. Piety is scarcely genuinely useless animals and which depend on charitable do-Jains rather than Hindus run most of the shelters which contain tokens of piety and as "pets" (more about "pets" in a later chapter). businesses which maintain a small number of useless cattle as tain their cattle at a net loss. Others are essentially for-profit dairy indeed primarily religious and charitable institutions which main-They house a total of 580,000 cattle. Some of the shelters are represent themselves as being concerned with animal protection. ment? About three thousand Indian facilities for housing animals are kept alive in India for no reason other than religious senti they prove that vast numbers of "surplus" and "useless" cattle But what about those famous old-age homes for cattle? Don't

shelters substitute starvation for lethal injections, but they share with the ASPCA the necessity to terminate guests in order to discharge their annual animal-catching duties.

grams and Little League baseball teams. "wasteful" rituals such as support for public broadcasting proa handful of pious cow-shelter enthusiasts. No system is perfect eating by elites—rationally justifies the expenditures incurred by Even corporate America hasn't quite figured out how to eliminate rituals whose historic payoff—the prevention of wasteful beef Animal shelters are part of a whole system of values, ideas, and charitable enterprises does not loom large in national perspective. India. Even if we also accept the unlikely proposition that the the useless and useful animals in their care, the costs of these people who run the cattle shelters make an equal effort to feed It amounts to less than 0.1 percent of the 180 million bovines in and Hindu shelters combined are useless. I suspect that most of them belong to the Jains, but let us accept the combined total. fimates that about a third, or 174,000, of the cattle in the Jain Deryck Lodrick, the principal authority on these matters, es-

As I see it then (and many of my colleagues in India now agree), the "irrationality" of the Hindu taboo on the slaughter of cattle and the consumption of beef is a figment of the imagination of Westerners who are accustomed to raising cattle for beef or for milk and who can use tractors for plowing. On balance, the aversion to beef makes it possible for India's huge population to consume more rather than less animal food.

Let me pause here to make sure that what I have just said does not get distorted into something with which I strongly disagree, namely that the traditional system is flawless, cannot be improved, and is as efficient today as it was in the past. There is a vicious circle operating which makes any such conclusions quite absurd. Human population growth, the reduction in the size of holdings, overgrazing, erosion, and desertification have contributed to a rise in the cost of cattle feeds and fodders relative to other production costs. This in turn has increased the demand for smaller and cheaper cattle breeds, which in turn has led to

a gradual deterioration in the quality of traction animals available to the poorer households. In the words of the geographer, A. K. Chakravarti:

Because of the increasing pressure of human population on land and less and nutritionally unbalanced feed available for cattle, the quality of cattle has deteriorated with declining milk yield and draft efficiency . . . the effort has been to compensate the declining efficiency by increasing the number of cattle . . . the increase in the number of cattle in turn has resulted in further shortages of feed and fodder.

There is now (and always has been) much room for improving existing breeds both from the point of view of traction power and milk production. As part of a comprehensive scheme to improve traction power and milk yields, it might be advantageous to slaughter cattle more freely than is possible today. (It would help to be able to get rid of stray animals and nondescript temple herds.) But by no stretch of the imagination can the declining efficiency of the traditional system be blamed on the aversion to beef. Blame population growth, colonialism, the caste systems, or land tenure, but don't blame the use of cattle for milk rather than meat! Bad as India's food situation may have become, there is no evidence that the removal of the ban on the slaughter of cattle by itself would ever have led to a broadly based improvement in the Indian diet.

During the past two decades India has actually made considerable progress in raising per capita cereal and dairy production. Thus far the diversions of grains to the production of animal foods is slight compared with what is happening in beef-eating nations like Mexico and Brazil, where beef cattle are now eating better than from one-third to one-half of the people at the bottom of the social pyramid. While the ban on cattle slaughter may eventually place a ceiling on the further improvement of traction and dairy breeds, the most pressing problem remains how to provide feed and fodder for these animals without diminishing the supply of food grains for people. The advantages involved in preventing

the diversion of grain to meat production therefore probably outweigh the losses which the ban on slaughter imposes on programs aimed at raising milk and traction production through improved breeding.

of modern India's milk supply. Water buffalo milk is creamier rinds. Now we are down to water buffalo, the principal source subsist on various kinds of emergency rations such as leaves and oxen. But buffalo lack the stamina and resiliency of zebu cattle body weight than cattle, and they lack the ability of cattle to plows, but for reasons that will become clear in a later chapter, sodden mass during the monsoon rains that fall on most of India. osize the camel? Many farmers do actually employ camels for they need to consume much more grass and straw per pound of leg if it tries to free itself. Donkeys and horses? They also pull A camel mired in the mud is a sorry sight. It can easily break a that also thrives during wet weather. Camels quickly become a specifications for the ideal Indian plow animal call for a creature pulling plows in the arid northwestern regions of India. But the with camels, donkeys, horses, and water buffalo. Why not apothegoats, sheep, and pigs, not to mention dogs and cats. We are left mother of India, a domestic species had to be at least big and ciency of India's zebu cattle. To enter the contest for animal animal (or entity) could perform so many vital services for human than cow's milk, and in deep mud the males can pull better than strong enough to pull the plow. This immediately eliminates beings. No other creature had the versatility, stamina, and effiquintessential symbol of Hinduism? The answer is that no other question: why did cattle and not some other animal become the takes us a long way toward answering the principal remaining give milk but she made agriculture possible." This perception apotheosis is obvious to me," he said. "The cow was in India the lost sight of the bottom line: "Why the cow was selected for significance of cow love to his followers. Like them, he never mystical devotion to cattle, Gandhi was well aware of the practical best companion. She was the giver of plenty. Not only did she To return to Mohandas Gandhi. For all of his sentimental and

They are costlier to raise and maintain, and they have far less resistance to drought than cattle. They cannot even survive northern India's normal dry periods without having their skins watered down each day. While the males are good in mud, they are far inferior to zebu oxen when it comes to plowing the typical Indian farmer's hard-packed, sun-baked, and dusty patch of earth. Finally, the use of buffalo for milk production is a modern innovation associated with the growth of urban markets and the development of specialized milk breeds. Clearly, this limited kind of creature could not attract the adoration of India's masses as the all-enduring mother of life.

I would only make some slight additions to Gandhi's explanation of the apotheosis of the cow: not only did she give milk but she was the mother of the cheapest and most efficient traction animal for India's soils and climate. In return for Hindu safeguards against the reemergence of energetically costly and socially divisive beef-eating foodways, she made it possible for the land to teem with human life.

