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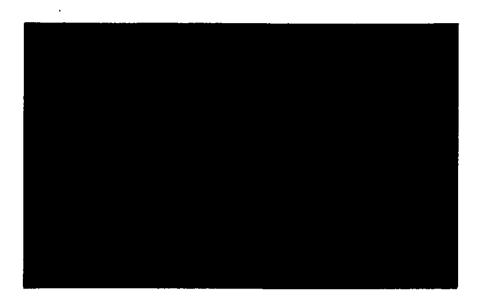
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Brazil The 1994 Election: **Technology Assessment Report**

February 28, 1995 J. Ray Kennedy

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BRAZIL 1994 Elections

Election Technology Assessment Report

February 28, 1995



INTERNATIONAL FOUNDATION FOR ELECTORAL SYSTEMS

1994 Elections At a Glance

Voter registration and voting mandatory for literate citizens between 18 and 70 years of age; registration and voting optional for those between 16 and 18 years of age, those over 70 years of age, and the illiterate. Computerized voter registry. Estimated voting-age population: approximately 100,000,000

Paper ballot, hand counted at central location in each electoral zone; results entered into computers and transmitted by modem to state election office and on to national election office

Presidential and gubernatorial elections by majority of valid votes; second round if necessary. Two senators elected per state in 1994 on plurality. Federal and state deputies elected via open-list proportional representation in state-wide voting.

20 parties with permanent registration, 19 with provisional registration

	First Round (October 3)
Registered Voters	94,782,410
Votes cast	77,950,257
Blank votes	7,192,255
Null votes	7,444,197
Valid votes	63,313,805
Number of candidates	±35,000
Number of vacancies	±1,700
Municipalities	4,974
Electoral zones/judges	2,530
Polling stations	275,270
Poll workers	1,651,620

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Brazil 1994 Elections: Election Technology Assessment

1. Introduction

The 1994 elections were critically important in the democratic development of Brazil, the largest democracy in Latin America (nearly 100 million voters choosing from among nearly 35,000 candidates). For the first time since at least 1960, Brazilians voted for national and state offices - President, Senator, Federal Deputy, Governor, and State Deputy - simultaneously. This changed the dynamic of Brazilian politics significantly, since in previous elections candidates would often take a leave of absence from elected office to run for office at another level. If they lost, they returned to their previous position; at worst they would have to wait a year or two until the next major election. The 1994 elections were more of a political life-or-death event.

There was also apparently some apprehension among Brazil's political forces about the continuing modernization of election administration in Brazil. Under an agreement between the United Nations Development Program (UNDP) and the Brazilian government, the UNDP had been working with Brazilian electoral authorities since October 1993 to set up a new computerized results transmission system. Prior to the elections, the Democratic Workers' Party (PDT) asked the U.S. Embassy in Brasília for assistance in locating a U.S. firm to perform an audit of the vote tabulation software.

IFES took an early interest in Brazilian election administration in 1989, when newspaper reports there indicated that Brazilian election officials were looking into the possibility of adapting existing national sports lottery technology (based on optical scanning) to voting and vote counting. Brazil had also undertaken a pilot program beginning in 1983 to establish a nationwide computerized voter registry which would eventually allow election officials anywhere in the country to check the voter registry for duplicate registrations elsewhere in the country before registering new voters. As part of this process, the Brazilians also developed sophisticated

programs to detect and report suspected duplicate registrations already in the system. More recently, election officials in the Brazilian state of Santa Catarina had undertaken a pilot project to automate the electoral process using very inexpensive personal computer technology and a custom keyboard. We believe that Brazil may be developing cost-effective indigenous election technologies which would be appropriate for use in other developing countries.

Ray Kennedy, IFES Director of Information Resources, traveled to Brazil to study the October 3 election process there and to learn more about the technological innovations taking place in Brazilian election administration. Mr. Kennedy visited São Paulo, the largest state but also one of the least technologically advanced in election administration, and Santa Catarina, where the State Election Tribunal has been one of the most advanced in introducing computer technology in election administration. Following the election, he traveled to Brasília to watch the national vote tabulation and to meet with members and staff of Brazil's national election authority, the *Tribunal Superior Eleitoral - TSE* (Supreme Electoral Tribunal).

The report that follows will focus on the technological innovations in Brazilian electoral administration, the future direction of its modernization, and the applicability of the concepts and technologies involved to election administration in other countries.

2. Historical Background

Brazil's contemporary electoral history can be said to begin in 1946, when democratic government was restored after nearly a decade of dictatorship. New political parties emerged, the voting age was lowered to 18 for men and women, and Brazil enjoyed a period of democratic governance until a military coup ousted President João Goulart in March 1964. (Jânio Quadros had been elected president in 1960 but resigned suddenly after only eight months in office; Goulart, his vice president, had succeeded to the presidency in 1961.)

The military regime suspended direct presidential and gubernatorial elections (they were to be elected indirectly by the National Congress and State Assemblies, respectively) as well as those of mayors of state capitals, border towns, and other "national security zones" (who were to be appointed by the respective governor). Existing political parties were abolished in 1965, and two parties - the pro-government National Renovating Alliance (Aliança Renovadora Nacional - ARENA) and the opposition Brazilian Democratic Movement (Movimento Democrático Brasileiro - MDB) were created. Congress was closed once (for most of 1969) during the depths of the military regime and again briefly in April 1977 (to enable the government to institute a series of unpopular electoral reforms). Since the military regime permitted elections for the national congress, state assemblies, and most local offices, though, Brazil's electoral history was more continuous than that of many of its neighbors. In fact, steady opposition gains in elections during the 1970s were a critical factor leading to the liberalization of the regime.

The dismantling of the dictatorship began in the late 1970s under General Ernesto Geisel. The artificial two-party system was abolished in 1979 and replaced by a multi-party system. Five parties emerged initially: the Democratic Social Party (*Partido Democrático Social - PDS*, ARENA's successor); the Brazilian Democratic Movement Party (*Partido do Movimento*

Democrático Brasileiro - PMDB, MDB's successor); the Brazilian Labor Party (Partido Trabalhista Brasileiro - PTB, a small-business party that had existed during the 1946-64 period); the Democratic Labor Party (Partido Democrático Trabalhista - PDT); and the Workers' Party (Partido dos Trabalhadores - PT).

In 1982, direct elections were held for governors, senators, federal and state deputies, mayors, and city councils. In those elections, a scandal erupted surrounding the computerized vote tally in the state of Rio de Janeiro, where Leonel Brizola, leader of the PDT and long-time opponent of the military regime, was running for governor.

The direct elections for governor in 1982 and the approach of the 1985 presidential elections led to a series of massive street rallies organized by the opposition to call for direct election of the president. Nonetheless, the constitutional amendment instituting direct elections failed to receive the necessary "super majority" by 22 votes. The opposition won the indirect election, however, and Brazil had its first civilian president in over 20 years.

The civilian government expanded the franchise in 1985 by giving illiterate Brazilians the right to vote, a right they first exercised in the 1985 elections for mayors of state capitals. These were followed by the 1986 elections for governors and members of the national and state legislatures, nationwide municipal elections in 1988, the 1989 presidential election (the first to be held since 1960 and the first ever to be held in two rounds), legislative and gubernatorial elections in 1992, and a 1993 constitutional referendum on presidential vs. parliamentary government and whether or not to restore the monarchy.

On October 3, 1994, nearly 100 million Brazilians were eligible to vote for president, governor, senator, federal deputy, and state deputy; slightly over 82% of them turned out on

election day. Fernando Henrique Cardoso, candidate of the Brazilian Social Democratic Party (*PSDB - Partido Social Democrático Brasileiro*), won the presidential race in the first round with over 54% of the valid vote. Since Brazilian law provides for a second round of presidential and gubernatorial elections if no candidate in those races receives at least half of the valid vote, a second round was held on November 15 to decide gubernatorial races in the 18 of 27 states where no candidate received the necessary majority on October 3. (The October 3 proportional elections in Rio de Janeiro state were also re-run on November 15 in the aftermath of allegations of widespread fraud during the vote count there.)

3. Brazilian Electoral System

- a. Electoral Legislation/Regulations
 - i. General Framework

Brazil has an electoral code (*Código Eleitoral*) that establishes the general framework for elections. The Code deals with the organizations responsible for election administration; voter registration; the elections, including the electoral system, preparation for elections, materials for elections, voting, and vote counting; and other general items such as party advertising, challenges, and penalties for infractions. The current electoral code, Law 4737 of July 15, 1965, has been complemented and in some cases superseded by other ordinary laws and by the Constitutions of 1967 and 1988.¹

There is a separate Organic Political Party Law (*Lei Orgânica de Partidos Políticos*), the current one dating from July 1971, to regulate the formation and actions of political parties, and a Law of Ineligibility (*Lei das Ineligibilidades*) to define who is ineligible for particular offices.

Specific provisions for each election are established through ordinary laws passed by the National Congress and through regulations promulgated by the TSE, which have the force of ordinary law. The law regulating the 1994 election was Law 8713, dated September 30, 1993. It contains sections on candidate registration, ballot specifications, election monitoring, opinion polling, campaign financing, electoral crimes and the process of trying those crimes, and election advertising. Law 8713 was complemented by TSE Resolution 14,427 of July 21, 1994 on polling stations, which has sections on election preparations, polling stations, secrecy of the ballot, election supplies, the voting process, and measures to guarantee the free nature of the elections;

See the table of contents of the Código Eleitoral in Appendix A.

and by TSE Resolution 14,545 of August 16, 1994 on counting centers, which contains provisions on the makeup of the *juntas eleitorais*; the counting process; counting teams (*turmas apuradoras*); monitoring of the counting process by the political parties; challenges, recount requests, and appeals; the proportional representation system; and declaration of winners.

Although the electoral law is supposed to be promulgated at least one year in advance of the elections (to prevent the recurrence of electoral "packages" such as the ones announced on short notice by the military government), there have been cases recently when it has been announced late or provisions have been changed less than one year in advance of the elections. (This has been especially true for regulations requiring incumbents to resign their current positions in order to run for office.) It is also a common complaint of the political parties that this system, despite the general framework of the *Código Eleitoral* (itself outdated), is much too unstable, since laws and regulations often change substantially from one election to another, sometimes well after campaigning has begun. The system also makes the laws and regulations the subject of intense pressure from interested parties in the period leading up to each election. (Law 8713 was the subject of 356 proposed amendments on the floor of the Chamber of Deputies after intense debate in committee.)²

ii. Political Campaigning

Law 8713 contemplates unfettered campaigning though displaying posters or similar material on **private** property and through distribution of flyers and booklets. Up to half of the billboard space in each municipality is to be made available by the owners on the basis of a lottery. Campaigning is formally prohibited on election day and punishable by up to three months detention, though many individuals do so despite the law.

Joel José Cândido, Direito Eleitoral Brasileiro, 4th edition, São Paulo, Edipro, 1994, p. 334.

Paid advertising in print media is allowed up to election day, up to established maximum sizes. Free access to the broadcast media is provided during the *horário eleitoral gratuito* (free electoral hour), which is aired twice daily (morning and evening on television, morning and noon on radio) during the 60-day period preceding the first-round elections.³ Presidential candidates share an hour a day (7:00-7:30 am and 8:30-9:00 pm) four days a week, while candidates for the other offices share the other hour a day. Three days a week, the time is dedicated to presentations of party platforms. The time allotment varies by office:

- one third of the time allotted presidential candidates is divided equally among contesting parties and coalitions, while the other two thirds are allotted in proportion to the number of seats each party or coalition holds in the Chamber of Deputies;
- time allotted senate candidates is divided equally by party;
- one half of the time allotted gubernatorial candidates is divided equally among contesting parties and coalitions, while the other half is allotted in proportion to the number of seats each party holds in the Chamber of Deputies;
- one third of the time allotted candidates for federal and state deputy is divided equally among contesting parties (whether members of a coalition or not), while the other two thirds are allotted in proportion to the number of seats each party holds in the Chamber of Deputies.

At least partly in response to elaborate programs put together for the *horário gratuito* during the 1989 presidential elections, programs must now be shot in a studio and may not contain pre-recorded material other than music or a party jingle.

The horário gratuito begins 22 days before and stops two days before the second round. The time slots alloted for the second round are half as long as they are for the first round.

Paid broadcast advertising is prohibited. The right of response is guaranteed to those candidates who are judged to be the subject of defamatory or otherwise injurious remarks. Although prior censorship or on-air cuts are not allowed, programs judged offensive may not be rebroadcast. Media infractions of established standards of fairness are punishable by temporary suspension of broadcasting rights. Broadcast debates are allowed as long as all candidates are invited to participate at least 72 hours in advance.

The question of opinion polls has been hotly debated in Brazil in recent years, even between the two houses of Congress as they worked on electoral legislation. The Chamber of Deputies, arguing that many of the polls are unreliable and that all are too influential in swaying voters, argued strongly prior to the 1989 elections for a ban on releasing polling results beginning 30 days before the first round and 10 days before the second. The Senate, arguing for the free flow of information, objected to restrictions on the release of such results.

Under Law 8713, firms releasing polling results after April 2, 1994 were required to submit to electoral authorities at least five days prior to their release:

- the person or organization commissioning the poll;
- the amount paid and source of funds for the poll;
- the methodology and period covered;
- the sampling plan and sample characteristics as related to gender, age, educational level, economic level, and geographical area;
- quality controls on the data collected.

This information is posted for public inspection and made available to any party or candidate involved in the relevant election, who are allowed to conduct an independent audit. The results

are provided directly to them as soon as they are released publicly. Infractions of these provisions are heavily punished.⁴

iii. Campaign Finance

Upon filing their candidacies, individuals must disclose all of their assets at their current value. Parties with presidential candidates must establish a National Finance Committee within five days of nominating a candidate and register the committee with the TSE. Parties with candidates for other offices must establish State Finance Committees wherever they have candidates and register these committees with the respective state election board (*Tribunal Regional Eleitoral - TRE*).

The law states that candidates are responsible for administering campaign funds directly or through a designee and must sign all campaign finance reports personally. Candidates violating campaign finance regulations are subject to forfeiture of their candidacy or elected office. Parties and candidates are to retain documentation of donations for a period of five years.

Fund, individual or corporate donations, or internal resources. Donations may not be accepted from any foreign entity or government or any Brazilian non-profit organization receiving funds from such foreign entity or government; public or publicly funded entity; government contractors; or labor organizations. Individual donations are limited to the greater of ten percent of the donor's gross income from the previous year or 70,000 UFIRs⁵, while corporate donations are

Imprisonment for two to twelve months or a fine, plus a penalty equivalent to the cost of the poll. The law also provides that infractions by the media will be punished as aggravated crimes.

The UFIR (Unidade Fiscal de Referência, or Fiscal Reference Unit) was an accounting unit, equal to about \$0.73 on Election Day. The UFIR is readjusted monthly.

limited to the greater of two percent of gross receipts from operations in the previous year or 300,000 UFIRs. Individuals may also make personal expenditures in support of a candidate up to a limit of 1,000 UFIRs as long as these expenditures are not reimbursable by the candidate, their committee, or their party.

All donations are to be acknowledged through a numbered receipt, called an Electoral Bond (bônus eleitoral). These bonds are issued by the Ministry of Finance to the parties in an amount equivalent to their spending ceiling and then passed on by the parties to individual candidates up to their individual spending limits. The practice of a second set of books is, however, thought to be common.

b. Electoral Administration

Election administration in Brazil is the responsibility of the Electoral Justice (Justiça Eleitoral) system. This system comprises the Tribunal Superior Eleitoral, which has jurisdiction throughout the country; the Tribunal Regional Eleitoral of each state and the Federal District, which has jurisdiction in its home state; Juízes Eleitorais, who have jurisdiction over electoral matters in a given geographical zone (normally a municipality, but some municipalities have grown to be larger than one electoral zone while others are smaller than their respective electoral zone); and Juntas Eleitorais, the first level of the system, whose members are responsible for overseeing the ballot-counting process.

Unlike several of its neighbors, Brazil's electoral system is not an independent government organ. Its members and staffs are generally on temporary assignment from another organ; many electoral tribunal members in fact must continue to discharge their normal duties in addition to

their electoral duties. This has also meant that there is no clear career path in the field of election administration in Brazil, no specialized training required of its practitioners.

i. Tribunal Superior Eleitoral

The TSE was established in 1932, abolished in 1937, and revived in 1945. It currently consists of seven members: three elected from among the members of the Supreme Federal Tribunal (Supremo Tribunal Federal - STF, Brazil's supreme court), two elected from among the members of the Supreme Tribunal of Justice (Superior Tribunal de Justiça - STJ, the federal appeals court), and two lawyers named by the President from among six distinguished lawyers nominated by the STF. Each member has an alternate, selected in the same manner. Members and alternates serve a two-year term, renewable once. The president and vice-president of the TSE are elected by the TSE members from among the three STF members. It is responsible for overseeing the administration of presidential elections. (As a result, the TSE was not directly involved in any of the elections from 1964 to 1989.)

TSE decisions are normally made on a majority vote; a majority of the members constitutes a quorum for most purposes. The decisions of the TSE are final except in cases involving constitutionality, *habeas corpus*, and restraining orders.

ii. Tribunais Regionais Eleitorais

The 27 TREs consist of two desembargadores (judges) of the state supreme court (*Tribunal de Justiça - TJ*), two judges chosen by the state supreme court, one judge of the local Federal District Court (*Tribunal Regional Federal*), and two lawyers named by the President from among six distinguished lawyers nominated by the TJ. The president and vice-president of the TRE are

elected by the TRE members from among the two TJ members. The TRE is responsible for overseeing the administration of congressional, state, and municipal elections. An electoral prosecutor sits on the Tribunal but has no vote. TRE meetings are generally open to the public and the press.

Challenges must be brought to the TRE within three days of an infraction unless they involve constitutional questions; each is assigned to a TRE member as principal case handler. The TREs' decisions are final except in cases involving constitutionality, declaration of winners, restraining orders, and *habeus corpus*, in which case appeal is automatic; and in the case of violation of a federal law or a difference in interpretation between two TREs. The case load of the TREs can be substantial, to the point that in late 1989 the TRE was still considering cases brought during the November 1988 municipal elections.

iii. Zonas Eleitorais

Each Zona Eleitoral (Electoral Zone) is presided over by a juíz eleitoral (electoral judge) appointed by the TRE from among the state court judges. These judges have extensive powers over the electoral process in their zone while remaining responsible for their normal judicial duties. In the electoral field, they are responsible for the recruitment and training of poll workers and vote tabulators and the credentialing of party poll watchers. There were 2,530 electoral zones in 1994.

iv. Juntas Eleitorais

The first level of the electoral justice system is the *Junta Eleitoral*, which oversees the counting of ballots and whose members issue initial rulings on challenges presented by party

delegates. The *Juntas Eleitorais* consist of two or four members, who can be ordinary citizens, and a president, who must be a judge.

v. Seção Eleitoral or Mesa Receptora de Votos

Voters cast their ballot at their assigned polling station (seção eleitoral). These are staffed by six individuals: a president, two secretaries, two members, and an alternate.

c. Logistics

Election supplies are dispatched from the TREs by mail to the zonas eleitorais, where they are under the jurisdiction of the electoral judge until they are collected by the president of the polling station. After the polls are closed, the ballot "bags" are closed and sealed and taken to a designated location, usually the local counting center.

d. Parties

The Brazilian political party system has been notoriously weak since the party liberalization of 1979. From the five parties that first emerged at that point, the system has grown to nearly 40 (half with permanent registration, the other half with provisional registration).

There has been an ongoing debate between those who favor the free formation and competition of parties and those who see greater benefit in a more stable, rational party system. The question of the communist parties (*Partido Comunista Brasileiro - PCB*, the more moderate Moscow-line party, and the *Partido Comunista do Brasil - PC do B*, the more militant Beijing-line

party) was especially delicate during the early 1980s, since any legislation or regulation that excluded them was seen as authoritarian rather than as an effort to promote greater stability in a highly factionalized system.

Less than half of the registered voters in 1989 belonged to a political party. Eighteen parties are now represented in the Chamber of Deputies following the 1994 elections, three of them with only one member each and four more with three members or less. These "microparties" have been a recurring problem in the Congress, since the "leader" of each one usually claimed the same prerogatives (larger offices, extra staff, additional telephone lines, car, etc.) as leaders of large party caucuses.

Under Law 8713, presidential candidates could only be presented by:

- parties receiving at least five percent of the valid vote in the 1990 elections for federal deputies, distributed among at least one third of the states;
- parties having at least three percent of the seats in the Chamber of Deputies as of September 30, 1993;
- coalitions which contained a party meeting either of the above requirements; or
- coalitions whose member parties totaled met either of the first two requirements.

Gubernatorial candidates could be presented by:

- parties meeting either of the first two criteria for presidential candidates;
- parties that received at least three percent of the valid vote in the 1990 elections for state deputies in that state;
- coalitions which contained a party meeting either of the above requirements; or
- coalitions whose member parties totaled met either of the first two requirements.

Law 8713 also guaranteed all sitting federal and state deputies a spot on the ballot for reelection unless otherwise decided by the **national** executive committee of their party, a definite boon for the drafters of the law, since they could not be excluded from the ballot by the local or state party offices.

Brazil, like Finland, utilizes an open list system for proportional elections, in that voters generally vote for an individual candidate rather than merely a party slate. Candidates for both state deputy and federal deputy run on an at-large basis in their state. Votes are counted for individual candidates and then summed to determine each party's total and the electoral quotient; seats are allocated to parties on the basis of the electoral quotient, and then assigned to candidates on the basis of their individual vote totals. In the past, each party was allowed to run two candidates for each open seat. This meant that with 15 parties contesting São Paulo's 60 seats in the federal Chamber of Deputies and 84 seats in the State Assembly, there could be more than 4,300 candidates running at-large in the proportional elections in that state alone. Parties are now only allowed to run one candidate for each open seat, with certain exceptions. The growth in the number of registered parties, however, has still led to an increase in the number of potential candidates in an election. The open list system for proportional elections generally leads to substantial competition between candidates of the same party and has tended to personalize politics and weaken the parties.

Parties were allowed to form coalitions for both majority elections (president, governor, senator) and proportional elections (federal and state deputy) in 1994, as long as the coalition was the same in all elections in a given jurisdiction; coalitions could and did differ significantly from one jurisdiction to another. For proportional elections, each coalition could present a candidate slate up to 1.5 times the number of seats to be filled, as long as no single party in the coalition put up more candidates than the number of seats to be filled.

Parties are guaranteed free access to each stage of the voting and vote counting process, including advance access to the computer programs used in totaling the vote, by Article 24 of Law 8713 and TSE Resolution 14,611 of August 30, 1994. Parties have 48 hours after receiving the computer programs to file a challenge. Under paragraph 5 of Article 24, parties are allowed to contract systems auditors, set up their own tabulation systems, and receive the same data that the TSE receives from the TREs.

The larger political parties have been successful in recent years in deploying large numbers of poll watchers to witness the voting, counting, and tabulation processes. They have also begun to recognize the importance of providing extensive training for their volunteers and the creation of parallel vote count systems.

The latter is facilitated by the existence in the counting centers of *comissões* interpartidárias (interparty committees), which receive a carbon copy of each tally sheet. These can then be copied by the various parties for input into their own parallel tabulation systems.

e. Voter Education

TREs are given up to eight minutes a day of radio and television time beginning 15 days before the election for the purposes of voter education.

The São Paulo TRE (TRE/SP) offered a telephone response line to assist individuals in locating their assigned polling place.

The Brazilian Bar Association (Ordem dos Advogados do Brasil - OAB) organized a program to provide information to voters and to encourage participation in the 1994 elections.

The Santa Catarina TRE (TRE/SC) launched a voter education program targeted at those between 16 and 18 in April 1994 in order to encourage them to register and vote. The president of the TRE/SC, Francisco Xavier Medeiros Vieira, felt strongly that if 16- and 17-year-olds began to think of voting as a right rather than an obligation, they would take it more seriously. The program, with extensive coverage from local media and financial support for voter information materials from the state bank, was a great success, as the electorate grew by more than double its normal rate in relation to the previous election (7 percent vs. 3 percent); of the 215,074 new voters, 127,991 were 16- or 17-year-olds, more than doubling the number of registered voters in that age category (from 100,902 to 228,893). The TRE set up special voter registration sites for this exercise, including many in local high schools and shopping centers.

f. Voter Registration

Voter registration is a continuous process in Brazil, although only those registered by a cut-off date 100 days before the elections are eligible to vote in those elections; transfer requests must also be submitted by this deadline. This allows the data processing centers to complete entry of information on new registrants and to run cross checks to detect duplicate or other irregular registrations. Individuals reaching the voting age of 16 after the cutoff but before the date of the election are allowed to register and vote.

The current voter registration card has no photo.⁶ Since registrations are subject to suspension or cancellation due to irregularities, voters are only allowed to vote if their names appear on the voters register at the polling place. They may use either their voting card or their national identity card to prove their identity.

See sample voter registration card in Appendix D.

Voter registration information is confidential and may only be released on judicial order; to the elector; or to the elector's close relatives. Voter registration offices are located in each zona eleitoral.

g. Poll Worker Recruiting and Training

Poll workers in Brazil are named 60 days prior to the elections. Their nominations are published in a supplement to the Official Record (*Diário Oficial*) of the state. The nomination includes an indication of the position to be filled (president, secretary, alternate, etc.)⁷ Individuals called for work at the polls have five days in which to present any valid reason why they should not serve as poll workers. These include:

- being a candidate or close relative of a candidate;
- being a party poll watcher or member of a party executive committee;
- being a police official or executive-branch political appointee;
- being an electoral official;
- being less than 18 years old;
- being a relative of another poll worker at the same polling station; or
- being a professional co-worker of another poll worker at the same polling station.

Under the electoral law, poll workers from the private sector receive a day of paid vacation on the day after the election in compensation for their work; if they are public employees, they receive two days.

See sample poll worker nominations from Diário Oficial do Estado de São Paulo, September 19, 1989.

h. Voting

Voting is mandatory for those between 18 and 70 years of age unless they are illiterate, and optional for the illiterate, those over 70, and those between 16 and 18 years old. Members of the military⁸, judges, and election officials can vote but may not join a political party. Voters residing abroad are permitted to vote in **presidential** elections at the nearest consular office. Those otherwise absent from their electoral domicile on election day go to the nearest post office to purchase, fill out, and mail an "electoral justification" (justificação eleitoral) to the electoral judge in their home district as proof that they were unable to vote. Non-voters who have not submitted a justificação eleitoral or other document such as a medical justification are punished by a fine of between two and ten times the minimum salary and by not being able to engage in official business with the government (including receiving paychecks in the case of government employees) until their situation is brought into compliance. The Código Eleitoral, in Article 367, provides that fines can be waived for those who make a sworn statement that they are poor, while also allowing electoral judges and tribunals to increase the fine up to ten times its original value if they believe that the original fine would be ineffective. Election officials have complained about the difficulties in enforcing the fine.

Each polling station (seção eleitoral) is assigned between 200 and 500 voters. In populous localities, multiple polling stations are grouped in a larger location such as a school, community center, or gymnasium. Polling stations are generally located on public property, although private properties are used when public facilities are insufficient in number or offer unsatisfactory conditions. Under no circumstances can properties belonging to candidates, party officials, police officials, or their close relatives be used. Voting begins at 8 am and ends at 5 pm.

Except for those completing their obligatory military service.

See a sample of the Justificação Eleitoral in Appendix H.

On election day, Brazilian voters received two ballots: first, a white ballot for the federal Chamber of Deputies and the State Assemblies, then a yellow ballot for presidential, gubernatorial, and senatorial races. (Members of the Chamber of Deputies feared that voters would ignore the proportional elections if all races were on one ballot or if allowed to vote in the majority races first.) The white proportional-election ballots were "name off" ballots and therefore identical from one state to another; there was a line for federal deputy and a line for state deputy where the voter was to indicate one of the following:

- a candidate's number;
- a candidate's name (including registered nicknames or variations¹⁰, and varying numbers of decipherable phonetic variations);
- a party's number; or
- a party's acronym or name¹¹.

The yellow majority-election ballots were "name on" ballots - each presidential candidate and the gubernatorial and senatorial candidates for a given state were listed on that state's ballot.¹² The ballots are printed on plain paper with black stripes on the back to conceal the voters' intent from pollworkers when the voter deposits the ballot in the ballot box. The ballots supplied to each polling station do not have numbered stubs, making their control essentially impossible; ballots are signed by the polling station officials as needed before being handed to voters as a means of preventing use of ballots brought into the polling place by voters.

In response to concerns regarding the time a voter would take to complete the voting process and the need to accommodate up to 500 voters per polling station during a fixed time

Law 8713, Article 12, states that candidates in proportional elections can register up to two alternate names and that the electoral authorities are responsible for providing cross-referenced lists of candidates and their name variations by September 1, 1994 for use by vote counters.

See sample proportional election ballot in Appendix E.

See sample majority election ballot in Appendix E.

period, the TRE/SC set up a mock election to test a setup using five voting booths: three reserved for voting in the proportional elections, and two reserved for voting in the majority elections. The mock election was administered in a locale deemed representative of the general population, with a wide range of ages and educational levels represented. This exercise proved that a polling station with five voting booths could accommodate up to 500 voters during a nine-hour day. Other states ran similar experiments, some coming up with different polling-station arrangements in order to speed up the overall voting process.

The TSE has done a study on illiteracy and the ballot, and there appears to be general recognition in Brazil that the ballot style still inhibits voting by the illiterate and semiliterate. Although the Congress has authorized the use of colors and candidate portraits on the ballot, the implementation of these measures is in the hands of the electoral authorities.¹³

Despite protests from electoral authorities that placing the two ballots in the same ballot box would slow down the vote counting, the Congress decided that only one ballot box would be used in each *seção*. Having two ballot boxes would have allowed the majority-election votes to be counted and tabulated before beginning the count of proportion-election votes, which given the high number of candidates and the various acceptable ways of marking the ballot were much more difficult to count.

Fraudulent sample ballots were discovered in circulation in five states. These had some candidate positions switched, probably to lead the less educated to cast their ballots for a candidate other than the one of their choice, since these individuals are often taught to locate their candidate on the ballot by counting ballot positions from the top or bottom of the ballot.

Article 86 of Law 8713 permits the use of "instruments" to assist the illiterate in voting, but states that such instruments will not be furnished by electoral authorities. These include cardstock "guides" distributed by parties or candidates with their numbers cut out to allow the illiterate voter to trace the number onto the ballot.

In response to allegations of massive voter registration fraud in the new state of Tocantins, Brazil's Attorney General and a TSE member were dispatched to analyze the situation. The TSE stated that election-day registration might be required there, including asking prospective voters for their birth certificate or other document. In addition, armed forces were sent to the states of Alagoas, Acre, and Maranhão to prevent coercion of voters.

The TSE also faced complaints of twins, triplets, etc. throughout Brazil when in the process of cleaning the voters' lists they cancelled the registrations of all individuals having the same birthday and the same parents.

After voting, the voter is given a stub from the voters list to prove that (s)he voted. Stubs remaining in the poll book after the election are read into the computer system through a bar-code reader and the corresponding individuals marked as not having voted in the election.

4. Technological Innovation in Brazilian Election Administration

Brazil's first law dealing with the utilization of electronic data processing in election administration was passed in 1982 (Law 6996, June 7, 1982). This law allowed TREs to begin implementation of computerization projects authorized by the TSE and was followed by Law 7444 of December 12, 1985, which mandated the re-registration of the entire electorate in order to establish a nationwide computerized voter registry system.

Brazil has experienced contradictory pressures in its drive to modernize election administration. On the one hand, there has been some resistance to computerization, especially on the part of the political parties. Some of the traditional political bosses in rural Brazil fear losing the ability to decide electoral outcomes, while many who have been pressing for democratization fear that the elections could be more easily manipulated by the electoral authorities or the government.

On the other hand, the significant growth in the size and mobility of the electorate made manual recordkeeping increasingly difficult and computerization an increasing necessity. In addition, nationalist forces in the country pushed through a series of laws beginning in the mid-1970s reserving the domestic computer market to domestic firms in an effort to stimulate autonomous development and self-sufficiency in the sector. This led to the creation of a number of firms which would play a role in election administration, especially as contractors providing data processing services to the electoral authorities.

The current state of affairs in Brazilian election automation is also somewhat contradictory. There are interesting and very successful or potentially successful projects already underway, while at the same time there have been chronic problems in certain areas. According to the TSE, as cited in a UNDP project document:

- Procedures vary from state to state and are often incompatible, which makes integration and exchange of data difficult.
- There is no standardization of formats for computerized files.
- Printing facilities for reports, documents, etc. are very poor at state sites....
- Procedures for updating voter's data are inadequate at all levels: national, state,
 and municipal.
- Several [voter] registers are processed by private computer centers that are not committed to the electoral process and are responsible for the high number of misidentified irregularities, at high cost. The TSE has verified that when data entry, for instance, is outsourced, the number of errors is much higher than when it is done by staff hired and trained by the TSE."

In response to this situation, the UNDP has undertaken a project to develop a training plan, modernize the structure of election administration, and upgrade the information infrastructure available to election administrators.

a. 1983 Voter Registry Pilot Project

Citing the continuous and overwhelming growth of voters lists, the TRE in Rio Grande do Sul (TRE/RS) had begun a pilot project in the early 1980s to automate the voter registry. The goal of the project was to enable each TRE - and eventually each local registration office - to verify the registration status of any individual in the country. Relying on computerized registration records rather than hard-copy files would allow the TREs to detect attempts by individuals moving from one state to another to obtain a second registration and would increase

the speed and reliability of voter registration services. The TSE sanctioned the pilot project in 1982.¹⁴

As part of the pilot project, a voter database was structured to contain name, parents' names, address, date of birth, electoral zone, municipality, voting location, registration number, participation in the three previous elections, and party affiliation, including a flag if the person was a party official (which would bar them from election administration positions). The structure of the database has since been refined and expanded to include data elements not collected during the pilot project. In addition to the voter database, which was to reflect the current registration status of each individual, an historical database was structured to include all previous registration information such as transfers, changes in party affiliation, and cancellations.

The work on the computerized registry was slated to proceed municipality by municipality, enabling the project to be scaled back at any point without disruption of the overall system. The initial data was taken from the voter sign-in books from the 1982 elections and entered by election-system personnel. Subsequently, forms were developed for registration¹⁵ and updates¹⁶. A new voter registration card, with detachable receipt, was also developed for computer printing.¹⁷ Party affiliation cards were collected by the parties and forwarded to the voter registration office for data entry.

See Tribunal Regional Eleitoral (Rio Grande do Sul), Sistema de Processamento Eletrônico de Dados: Justiça Eleitoral, Porto Alegre, TRE/RS, 1983.

Alistamento Eleitoral form; specimen included in Appendix B.

¹⁶ FASE (Formulário de Acompanhamento da Situação do Eleitor); a specimen is included in Appendix B.

Título Eleitoral/Protocolo de Entrega do Título Eleitoral; see specimen in Appendix D. The Protocolo (receipt) was given to the registrant once the information was verified and checked against existing records. After the card was sent to the electoral judge for signature, the voter was required to present the receipt in order to claim the registration card.

Other outputs of the system included a certificate of voter registration, a voter history, certificate of exemption from compulsory registration (such as for having reached the age of 70), voters' list by voting section, microfiche of voters' lists for backup use and for use by registration offices without computers, party rolls, party leadership rolls, notice of replacement card requests, notice of registration transfers, and other miscellaneous reports.¹⁸

The successful pilot project led to the complete re-registration of all Brazilian voters in 1985-86. Voters were given the opportunity to select their voting place at this time. In order to validate the new data, the TSE developed a new software program to search phonetically for existing duplicate registrations. By the time of the 1989 elections, the voter rolls had been cleared of thousands of duplicates and other errors. A statistical profile of the Brazilian electorate was published by the TSE in 1989.¹⁹

b. 1989 Presidential Election

In early 1989, the incumbent president of the TSE had mentioned in the press his interest in investigating the possibility of adapting for electoral use the optical mark scanning system already in use in the national sports lottery. Since the method of marking the lottery ticket was widely known (even among the many illiterate voters in Brazil, since many of them played the lottery regularly), this was seen as a possible means to speed the tabulation of votes. This approach was abandoned in the end because of its cost.

See Appendix N, Opções do Sistema (System Options), a screen print from the computer terminal at the TRE/RS.

Tribunal Superior Eleitoral, *Perfil do Eleitorado Brasileiro*, Brasília, TSE, 1989 (2 vols.) This work breaks down the electorate by state, state capitals, age, gender, level of instruction, and marital status.

There were approximately 82 million eligible voters for the 1989 presidential elections, of whom approximately 3 million were in the 16-17 age group and thus allowed but not required to vote.²⁰ Of the latter group, approximately 50 percent registered to vote.²¹

i. Results Transmission

In some states, the results were entered into a computer system by a contracted firm (often a state-owned firm), and returned to the TRE on diskette for transmission to the TSE by modem. In other states, the TRE was able to handle its own data entry and transmission. (In the state of São Paulo, regional centers were set up in São Paulo, Ribeirão Preto, Bauru, Presidente Prudente, Campinas, Santos, São José do Rio Preto, to receive tally sheets from electoral judges and to transmit the results to the TRE/SP. Santa Catarina also established seven regional centers to process vote totals and forward them to Florianópolis.) Each TRE received two personal computers to handle the transmission of results to the TSE.

ii. Results Dissemination

For the 1989 presidential elections, the TSE set up a sophisticated media center at the Brasília convention center to disseminate election results, which were being received by modem from each TRE. These were displayed on a series of monitors in the main press area, each monitor covering a large state or group of smaller states. Printed bulletins were also distributed at regular intervals. News conferences were held in the auditorium, which had the national results displayed on the wall behind the speaker. Television networks had direct read-only access to the TSEs computer, while radio and print journalists, each of whom generally had a booth of their

Interview with Francisco Rezek, TSE President, 10/10/1989.

Interview with José Júlio dos Reis, TSE Secretary-General, 10/10/1989.

own, depended on the monitors and bulletins at the convention center for their information. Ample communications resources allowed the many journalists to file stories around the clock.

c. 1990 Elections

Building on their success in consolidating vote totals at seven regional centers in Santa Catarina during the 1989 presidential elections, the TRE/SC established 80 data processing centers, one for each electoral zone, for the 1990 elections. Using 300 personal computers and calling on 200 computer professionals, many of them community volunteers, the TRE/SC completed its vote tabulation in 60 hours.

d. 1994 Elections

i. Voter Registration

Processing of the state voter registries is distributed among several sites. The TREs of the following states maintain their own registries: Paraná, Rio Grande do Sul, Paraíba (also maintains Sergipe), Mato Grosso (also maintains Bahia and Espírito Santo), and Goiás. São Paulo's voter registry is maintained by the state data processing organ, PRODESP. The other registries are currently maintained by the TSE in Brasília.

ii. Results Transmission

The 1994 elections represented another significant technological advance in Brazilian election administration in that for the first time, vote totals were to be transmitted electronically from the counting centers themselves to the TREs and from there to the TSE. (In previous elections, the electoral judge from each electoral zone was responsible for transporting the results from his or her zone to the TRE.) The transmission system was put in place with technical

assistance from the United Nations Development Program (UNDP) as part of a broader project (Electoral Justice Computer System, or SINJE - Sistema de Informática da Justiça Eleitoral) to provide the Brazilian electoral system with a suitable information infrastructure, and from Oracle, the developer of the software application.

The SINJE project has three major components:

- the 1994 elections results-transmission system
- a new voter registry system to allow computer access to the registry at the registration-office level (rather than the current state-level access)
- administrative systems, such as case monitoring, planning and budgeting, and personnel management.

The core of the new system consists of a network of RISC²² computers (one at the TSE and one at each TRE) linked through Brazil's National Packet Data Network (*Rede Nacional de Pacotes - RENPAC*). Each of these RISC computers will serve a local-area network. Each RISC unit was configured on the basis of the size of the state to be served. Electoral zones will also have local networks, linked to the responsible TRE by dial-up line. Each RISC computer was loaded with the HP-UX operating system, a print server, Oracle, and Recital (the latter two are database management programs).

Since Brazil uses a central count system, the ballot "boxes" (actually canvas ballot bags with a rigid, sealable top) were transported from the voting stations to a counting center, usually a large gymnasium or community center, after the close of voting. The count began officially the morning after Election Day when Minister Sepúlveda Pertence, president of the TSE, drew the first ballots (one yellow majority-election ballot and one white proportional-election ballot) in

²² Reduced Instruction-Set Computer

Brasília and announced their content. Each TRE president then followed a similar procedure, and the counting process was off and running. Given the high number of candidates, the necessity of counting the ballots separately for each race, and the fact that each counting team was responsible for counting more than one ballot "box", the counting stretched into the night of October 4 in most locations and beyond October 5 in many.

After each ballot "box" was counted, its tally sheet (BU - boletim de urna) was taken to the adjacent computer center for data entry and verification. A team of preparers generally inspected the BUs quickly prior to data entry for any obvious errors and then compared them carefully to the computer printouts prior to transmission. The TRE/SP estimated the time needed to input the proportional-election results from one ballot "box" at 20-25 minutes. (With fewer candidates running, the TRE/SC estimated the time needed at 15 minutes.) Once the print out of the BU matched the original, the vote totals were transferred to diskette and taken to another computer for transmission to the TRE. The printouts were given to the local inter-party committee. Passwords were used to gain access to any part of the system, with a user's level of access keyed to their password. Transmissions were encoded to enhance security. Diskettes were numbered systematically in order to facilitate retransmission in case a transmission was rejected. (Only 0.3% of the transmissions in the TRE/SC's pre-election tests were rejected.)

Totals for proportional races were computed at the TREs, while totals for the majority races were computed at the TSE. Although the electoral zones were free to set their own schedule in principle, the TRE/SP recommended that they stop counting each night in order to give vote counters a chance to rest. (São Paulo, with an electorate of roughly 21 million, had 374 electoral zones, 898 juntas apuradoras, 7,184 counting teams (turmas apuradoras), and 28,736 vote counters (escrutadores) and estimated that it would take four days to count the votes with each turma counting a maximum of eleven ballot "boxes". Santa Catarina election officials pushed to



have enough counters so that each counting team would only have to count an average of five ballot boxes, with a maximum of eight.)

Technical support for the zonas eleitorais came from TRE technical personnel assigned to each zona. These individuals were responsible for installing the system hardware and software, ensuring that the BUs were entered correctly, making periodic backups, and authorizing the generation of diskettes for transmission to the TRE. Backup support came from regional technical assistance units (núcleos de assistência técnica - NAT) scattered throughout the state and, as a final resort, from the emergency support staff at the TRE. There were 26 NATs in the State of São Paulo and 14 in Santa Catarina. NAT personnel were contracted by Embratel, the national telephone utility. Hewlett-Packard, the manufacturer of the RISC computers at the TSE and each TRE stationed one technician at each RISC site. The state power and telephone companies also had individuals on constant duty to respond to incident reports from electoral authorities.

The TSE organized training sessions for TRE technicians on data entry, communications, and technical support. The installation schedule for the project began on May 1, 1994 and extended through September 30. Communications tests were scheduled to run from early June through late July, with data entry/reception tests scheduled for August and full-system tests scheduled for September.

Santa Catarina took advantage of a provision in TSE Resolution 14,611 and sought computer equipment from "members of the community" (local banks, businesses, individuals, etc.) to supplement the equipment received from the TSE and speed the process of compiling and forwarding results through the system. (Over 600 personal computers were loaned to the TRE/SC through this initiative. The 12th Electoral Zone in Florianópolis, for example, received fifteen computers plus a backup for data entry on loan from the telephone company.) In many cases,

and November 12-17). The computer operations staff at TRE/SC set minimum specifications for the equipment to be borrowed (386SX-based personal computer, 2MB RAM, 1 5¼" high-density floppy drive, 40MB hard drive, licensed copy of DOS 5.0 or later, dot-matrix printer, 800va UPS) and directed each electoral judge to solicit enough equipment from his or her community (one computer for every 20 ballot boxes) to complete the results transmission in 30 hours. (The TSE calculated distribution of computers on the basis of one for every 80 ballot boxes.) Each piece of equipment borrowed by the TRE/SC was entered into a registry for tracking.

Progress was tracked at each stage of the process: review of BU, submission to data entry, print out, corrections, submission for transmission. Each data entry clerk had a unique number so that errors could be traced to their origin. (To discourage fraud, terminals displayed a message to data entry clerks that unauthorized use of the terminal constituted a crime, that each clerk had a unique, nontransferable password, and that all data entry activity was identified, audited, and sent to the TSE.)

The TRE/SC had one 64Kbps line to the TSE for transmission of results to Brasília and two incoming 64Kbps lines for use by the *zonas eleitorais* in transmitting results to Florianópolis. Each *zona eleitoral* had received two telephone lines from the state telephone company. Each *BU* was approximately eight kilobytes (8KB) in length. The TRE made an initial backup copy of the operating system and tables of its main computer, backups of the application software every eight hours, and backups of the transmission logs every two hours. The *zonas eleitorais* were to backup their systems prior to each transmission and once every three hours. The final backups at the end of the data entry process were to be delivered to the TRE within 24 hours.



The TRE/SC technician responsible for setting up each data processing center carried all the necessary software as well as step-by-step procedure manuals developed by the TRE computer operations office. Once the systems were set up in each data entry center, tests were run to verify each phase of the operation: data entry and verification, transmission of data by the data entry center, reception of the data by the TRE, transmission from the TREs, and reception at the TSE in Brasília. Following conclusion of the tests and prior to the start of work on October 4, all equipment was reinitialized to remove test data and prepare the database to receive actual results. Only the Electoral Judge in charge of the respective zona eleitoral, using a password received in a sealed envelope from the TRE, could open the results database for input of actual results.

iii. Results Dissemination

TREs set their own schedules for disseminating results on state races, but the TSE central computer polled each TRE central computer every half hour for updated results on all races. The TSE began releasing results at 12:30 pm on October 4, four and a half hours following the nationwide beginning of the vote count. The TRE/SP scheduled the distribution of printed updates of proportional election results at 11:00 am and 6:00 pm, given the volume of information involved, while the TRE/SC scheduled on-line updates every two hours. Results from anywhere in the country could be checked from any point in the nationwide TSE network at the level of nation, state, electoral zone, or ballot "box." Results were also made available through the Internet. The TREs set aside computers in their offices for members of the inter-party committees (comissão interpartidária) to check results against the copies received from the *Juntas Apuradoras*.

Following the second round on November 15, counting began immediately, and the TRE/SP received the results from the first 18 ballot "boxes" at approximately 7:00 pm. By 1:00 am, approximately 96% of the vote totals had been received by the TRE/SP.²³

- e. Current Pilot Projects and Future Plans
 - i. Computerization of voter registry offices

As metioned in conjunction with the SINJE project, each voter registration office in Brazil is to be equipped with a local-area network, with communications links to the state election office. This network will allow the offices to process voter registration requests (including checking nationwide for previous registrations) locally rather than sending them to the state capital or Brasília for processing.

ii. Computerized vote counting

Following the success of decentralized vote tabulation in the 1989 and 1990 elections, the TRE/SC sought to move to the next level of automation, the computerized central counting of paper ballots in a municipal election. Working in partnership with the Federal University of Santa Catarina, a government computer agency, and a private contractor, the TRE/SC developed the software necessary to automate the vote counting process.

This information on the second round comes from the report of Gustavo Villamil Rozo, director of computer operations at the *Registraduria Nacional del Estado Civil* of Colombia, the organization responsible for election administration in that country. At IFES' suggestion, the TRE/SP invited Mr. Villamil to São Paulo for the November 15 second round to learn about Brazilian election administration.

The system that was developed was based, as mentioned at the beginning of this report, on the federal sports lottery already in place throughout Brazil, as well as being similar to university entrance examinations familiar to many in the state. The card readers were produced by RACIMEC, the manufacturer of lottery card readers used throughout Brazil.

A ballot roughly 21cm x 8.25cm in size was designed with blocks for each mayoral candidate (a majority race) and for each party and candidate running for city council (a proportional race). In keeping with Brazil's open list proportional system, voters had to be given the opportunity to cast a party vote or a vote for an individual candidate. The party boxes contained the party's number and acronym. To vote for a candidate, voters had to mark both a party and an individual number, since with an average of 350 candidates for municipal offices in the larger cities of a small state such as Santa Catarina and a fixed ballot size it would have been nearly impossible to develop a workable ballot with an individual space for each candidate.

In counting the ballots, each turma apuradora was to have a computer workstation and ballot reader. Each ballot was fed into the card reader individually; the vote as read would be displayed on the computer screen and could be accepted, entered manually if it was unreadable, or modified by the computer operator if it did not correspond to the voter's intent. Once the operator indicated that all ballots had been counted, the system would print out the boletim de urna. The workstations were linked to a server, which totalled the results from each workstation and printed partial and final reports.

According to the TRE/SC's report on the project,²⁴ the proposed ballot represented an improvement over the traditional ballot because it:

Tribunal Regional Eleitoral de Santa Catarina. "Projeto de Cédula Eleitoral e Apuração Automatizada." Florianópolis, May 1992, p. 9.

- did not require the voter to know how to write .
- eliminated the problem of illegible ballots
- could be easily read by data processing equipment
- took advantage of existing technology
- satisfied the voters' desire for speedier results (an estimated three times faster)
- allowed manual counting where necessary.

Following public demonstrations of the new system, 61.4% of the voters found it easier, while only 21.4% found it more difficult; the remainder saw little difference.

The new system was first used in a municipal referendum on March 31, 1991 in the municipality of Urussanga, in which 6,500 voters cast their votes on a total of 40 personal computers. Subsequent local votes in Barra Velha (November 24, 1991) and Curitibanos (March 15, 1992) were also successful.

Objectively, however, the system has a number of weaknesses as well. First, the complexity of having to mark two boxes in order to vote for an individual would require significant voter education. Second, the requirement that each ballot be fed individually and accepted or modified is significantly slower than the ideal automated process. Finally, and most importantly, the ability of the operator to modify the vote before it is tallied is a significant weakness in the reliability of the results.

iii. Electronic Plebescite

For several municipal referenda in 1993 and 1994, the TRE/SC had developed an electronic voting system based on a personal computer with a custom keyboard with six keys: begin, yes, no, blank vote, void ballot, and end. This system greatly increased the speed with

which the TRE/SC was able to announce final results. Contrary to their initial expectations, the system was most popular among voters with the least formal education.

Given the similarity between a plebescite and a second-round (i.e., two-candidate) election, the TRE/SC requested and received authorization from the TSE to conduct balloting in several locations for the November 15 second round using the equipment developed for the electronic plebescite project.

On February 12, 1995, this system was used for a two-candidate mayoral election in the town of Xaxim, Santa Catarina. Of the town's 14,659 registered voters, 12,204 voted in the election. 85 computers, including demonstration units, were set up at the municipality's 25 polling stations. The electronic election cost approximately \$38,000; election officials estimated that a conventional election would have cost three times that figure. The vote tabulation took 39 minutes, including about 20 minutes to repair an electrical fault at one location, rather than the five hours that would have been necessary to count the votes by hand and enter the results for tabulation. The president of the TSE was in Xaxim for the election and set as a goal the complete automation of the nationwide mayoral elections in 1996.

iv. Electoral Law Database

The TRE/SC, in order to facilitate access to the current body of electoral laws and regulations, has put in place a basic electoral law database with assistance from UNESCO. The software used in this project was Micro-Isis. The system allows users to view a dictionary of terms, formulate queries, and print their results. Information in the database is indexed by number of the decision or case, municipality, electoral zone, plaintiff, legislative reference, descriptors, and the Tribunal members responsible for the drafting the opinion.

5. General Evaluation

The 1994 elections proved the value of applying wide-area-network technology to election administration, while showing some of the inherent weaknesses that must occupy the attention of those responsible for carrying the modernization process forward.

- Problems were still being identified with the system during results transmission. This may have been the result of insufficient testing of the system under sufficiently "real" conditions prior to the vote tabulation. Patches were distributed by the TSE computer to the TRE computers to correct the problems, except TRE reports were that some of the patches were themselves incorrect. As a result, the TRE began to transmit results by fax.
- Problems with line noise and connection difficulties were isolated and did not indicate any substantive systemic problem.
- Results from some polling stations were transmitted from the counting center to the TRE, acknowledged by the TRE computer as having been received, and then lost, leading to the need for multiple transmissions.
- The final on-line results dissemination program only arrived at the TRE on election day, making it difficult to train the technicians and users on it.
- While results were searchable by polling station, municipality, state, and country,
 the political parties were accustomed to receiving the information by electoral
 zone. This points out the necessity of bringing parties fully into the process of
 implementing a new system so that they are aware of exactly what they will
 receive.
- Pilot projects can increase the enthusiasm for and acceptance of new technologies.
- Relatively low educational level is not a universally valid barrier to the acceptance or successful implementation of election modernization projects.

> Although most data entry clerks were bank tellers or others with similar computer experience, election officials in large urban centers often complain about the poor quality of the personnel they are loaned for data entry.

Among the more significant general observations regarding the election process are:

- There were general complaints about the lack of orientation of voters in how to
 evaluate opposing candidates and about the inability of voters to absorb and
 evaluate information on so many candidates.
- Party pollwatchers had difficulty in identifying and keeping track of the stacks of ballots as the vote counters were separating them.
- Once the stacks of ballots were complete, pollwatchers were unable to keep track
 of simultaneous counts.
- Pollwatchers also complained that the counters did not count the ballots by moving them from one pile to another, which would have made it easier to detect any effort at fraud.
- Support for the counting teams from TRE and *zona eleitoral* officials was good at counting centers visited in Florianópolis.

6. Recommendations

- 1. Work with Election Tribunal to develop an effective voter education program to address:
 - a. the new mixed-district voting system proposed by the TSE
 - b. encouraging participation in the electoral process in order to overcome the high number of non-voters
 - c. facilitating voting in proportional elections on a ballot considered by many to be difficult
 - d. presenting potential voters with practical means of evaluating candidates
- 2. Work with Election Tribunal to develop new procedures as part of transition to pollingplace vote count or to mechanized/computerized central vote count.
- 3. Organize an Electoral Reform Symposium to assist in comprehensive modernization and consolidation of legal framework of election administration.

APPENDICES

A.:	Table of Contents	of the	Código	Eleitoral,	Law	4737	of July	15,	1965
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- B.: Voter Registration Forms
 - 1) 1989 model
 - 2) 1994 model
- C.: Voter Record Change Forms
 - 1) 1989 model
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- D.: Voter Registration Card
- E.: Sample Ballots
 - 1) Majority election
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- F.: Sample Boletim de Urna (Ballot-Box Total Sheet)
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 - b. Proportional Election
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 - a. Majority Election
 - b. Proportional Election
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APPENDIX B

The voter registration form (Formulário de Alistamento Eleitoral - FAE) used in 1989 contained the following information:

- 1. empty field for data processing use
- 2. Fields 2-7 reserved for registry office use
 - a. flag for initial registration
 - b. flag for transfer
 - c. flag for revision
- 3. flag for pollworker status
- 4. state code
- 5. municipality code
- 6. electoral zone
- 7. voting place
- 8. full name
- 9. parents' names
- 10. municipality
- 11. neighborhood/district
- 12. street name
- 13. street number
- 14. floor/room/apartment
- 15. postal code
- 16. date of birth
- 17. gender
- 18. marital status
- 19. education
- 20. educational level completed or not
- 21. primary occupation
- 22. occupation code
- 23. state and municipality of birth
- 24. code for state and municipality of birth
- 25. national ID card number and issuing office

Fields 26-32 were to be copied from the voter registration card:

- 26. circumscription
- 27. electoral zone
- 28. voting section
- 29. registration number
- 30. municipality
- 31. municipality code
- 32. voter's name

Additional spaces were provided for the registrant's right thumbprint or signature, date and place of completion of the form, signature of the registration clerk, and for approval of the registration request by an electoral judge.

The form's instructions required the registrant to present either a national identity card, a birth certificate from the civil registry, or a military service certificate in order to register. In order to request changes, the individual was required to present their current registration card (or in case of a name change, the official document showing the change).

Note that the form is not pre-numbered, impeding adequate control of the stock of forms. The FAE form is a two-part form, with the second copy produced by a carbon interleaf.

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The voter registration form (Formulário de Alistamento Eleitoral - FAE) used in 1994 contained the following information:

- 1. empty field for data processing use
- 2. code for type of operation
 - 1 = initial registration
 - 3 = transfer within state
 - 5 = tranfer between states
 - 7 = revision
 - 9 = request for second copy
- 3. empty field for general use; special codes are inserted to indicate such things as poll worker status, invalid birth date, twin or homonym, or special transfer
- 4. registration number; preprinted stickers are used for new registrations and transfers between states
- 5. state code
- 6. municipality code
- 7. electoral zone
- 8. voting place
- 9. full name
- 10. date of birth
- 11. gender
- 12. marital status
- 13. education
- 14. primary occupation
- 15. occupation code
- 16. state and municipality of birth
- 17. code for municipality of birth
- 18. previous voting location (in case of transfers between states)
- 19. previous voting state
- 20. previous registration number
- 21. municipality
- 22. postal code
- 23. street name, street number, floor/room/apartment, neighborhood/district
- 24. parents' names
- 25. empty field

Additional spaces were provided for the registrant's right thumbprint or signature, date and place of completion of the form, signature of the registration clerk, and for approval of the registration request by an electoral judge.

The form's instructions required the registrant to present either a national identity card, a birth certificate from the civil registry, or a military service certificate in order to register. In order to request changes, the individual was required to present their current registration card (or in case of a name change, the official document showing the change).

Note that the form is not pre-numbered, impeding adequate control of the stock of forms. The revised FAE form is a single-part form. A detachable receipt at the bottom is given to the voter once the form is completed.

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21 MAE 22 POLEGAR DIREITO	INFORMAÇÕES AÇIMA PRESTADAS, IN PRAZO MINIMO DE DOMICILIO PARA TI LOCAL DATA 23	ICLUSIVE QUANTO AO	E APÓS SUA ASSIN	URA DO FUNCIONARIO O	DIGITAL. DU PREPARADOR ELEITORAL
21 MAE 22 POLEGAR DIREITO	INFORMAÇÕES ACIMA PRESTADAS, IN PRAZO MINIMO DE DOMICILIO PARA TI	ICLUSIVE QUANTO AO	E APÓS SUA ASSIN	URA DO FUNCIONARIO O	DIGITAL. DU PREPARADOR ELEITORAL
20 PAI 21 MAE 22 POLEGAR DIREITO	INFORMAÇÕES AÇIMA PRESTADAS, IN PRAZO MINIMO DE DOMICILIO PARA TI LOCAL DATA 23	ICLUSIVE QUANTO AO	E APÓS SUA ASSIN	URA DO FUNCIONARIO O	DIGITAL. DU PREPARADOR ELEITORAL
20 PAI 21 MAE 22 POLEGAR DIREITO	INFORMAÇÕES AÇIMA PRESTADAS, IN PRAZO MINIMO DE DOMICILIO PARA TI LOCAL DATA 23	ACLUSIVE CUANTO AC	E APÓS SUA ASSIN	URA DO FUNCIONARIO O	DIGITAL. DU PREPARADOR ELEITORAL
21 MAE 22 POLEGAR DIREITO ASSINATURA OU IMPR	INFORMACOES ACIMA PRESTADAS, IN PRAZO MINIMO DE DOMICILIO PARA TI LOCAL DATA Z3 , ESSÃO DIGITAL DO REQUERENTE	ACLUSIVE CUANTO AC	E APÓS SUA ASSIN	URA DO FUNCIONARIO O	DIGITAL. DU PREPARADOR ELEITORAL
21 MAE 22 MAE POLEGAR DIREITO ASSINATURA OU IMPR	DATA 23 , ESSÃO DIGITAL DO REQUERENTE 2014 ELEITORAL NOME DO REQUEREN	ITE	E APÓS SUA ASSIN	URA DO FUNCIONARIO O DEFIRO UIZ ELEITORAL	DIGITAL. DU PREPARADOR ELEITORAL
21 MAE 22 MAE POLEGAR DIREITO ASSINATURA QU'IMPR	DATA 23 , ESSÃO DIGITAL DO REQUERENTE LOVA ELEITORAL NOME DO REQUERENTE	ITE	E APÓS SUA ASSIN	URA DO FUNCIONARIO O DEFIRO UIZ ELEITORAL Nº DE INSCRIÇÃO	DU PREPARADOR ELEITORAL DATA
21 MAE 22 POLEGAR DIREITO ASSINATURA OU IMPR	DATA 23 DATA 23 ESSÃO DIGITAL DO REQUERENTE TRANSE IRAN	ITE	E APÓS SUA ASSIN	URA DO FUNCIONARIO C DEFIRO Nº DE INSCRIÇÃO COLE AQUI A ETIQUE "ISCRIÇÃO OL DE TR	DU PREPARADOR ELEITORAL DATA LA TRE SOMENTE QUANDO SE TRATAR PANSERERIO A ELTRE UF L
21 MAE 22 MAE POLEGAR DIREITO ASSINATURA OU IMPR SOLICITAÇÃO	ESSÃO DIGITAL DO REQUERENTE 2014 ELEITORAL NOME DO REQUERENTE 1014 ELEITORAL NOME DO REQUERENTE 1014 ELEITORAL NOME DO REQUERENTE 1014 ELEITORAL NOME DO REQUERENTE	ISF	E APÓS SUA ASSIN	URA DO FUNCIONARIO C DEFIRO Nº DE INSCRIÇÃO COLE AQUI A ETIQUE "ISCRIÇÃO OL DE TR	DU PREPARADOR ELEITORAL DATA LA TRE SOMENTE QUANDO SE TRATAR
21 MÁE 21 MÁE 22 POLEGAR DIREITO ASSINATURA OU IMPR SOLICITAÇÃO	DATA 23 DATA 23 ESSÃO DIGITAL DO REQUERENTE TRANSE IRAN	ISF	E APÓS SUA ASSIN	URA DO FUNCIONARIO O DEFIRO Nº DE INSCRIÇÃO COLE AQUI A ETIQUE "ISCRIÇÃO DO 2E TE PARA OS DEMAIS O	DU PREPARADOR ELEITORAL DATA LA TRE SOMENTE QUANDO SE TRATAR PANSERERIO A ELTRE UF L

APPENDIX C

The voter record change form (Formulário de Acompanhamento da Situação do Eleitor -FASE) form used in 1989 contained the following information:

- 26. empty field for data processing use
- 27. type of action (replacement or change of status)
- 28. voter registration number
- 29. state
- 30. municipality code
- 31. electoral zone
- 32. name
- 33. options
 - a. cancellation because of death
 - b. cancellation because of duplicate registration
 - c. cancellation for not voting
 - d. cancellation [suspension] during obligatory military service (all other military personnel are eligible to vote)
 - e. cancellation for age over 70
 - f. cancellation for physical incapacity
 - g. situation resolved by payment of fine
 - h. registration approved following hold
 - i. did not vote in assigned location
 - j. voted special ballot
 - k. other (from separate table of options)
- 34. date of situation necessitating change
- 35. additional information (from a separate table of options)
- 36. date of completion
- 37. registration clerk's name and number

OZ COMANDO OT PARA USO DO PROCESSAMENTO
29VIA 7
EACE .
FASE REGISTRO X 9
03 Nº DA INSCRIÇÃO DO ELEITOR 04 U.F. OB MUNICÍPIO 06 ZONA
3,6,6,7,6,6,1,0,4,6,9 R,S cooleo 8,8,1,3,7 Némero 1,5,7
OT NOME DO ELEITOR
IVARDIR CARDOSO
OS ASSINALAR COM UM "X" APENAS UMA (DAS OPÇÕES)
O19 CANCEL (FALECIMENTO) OSI CANCEL (MAIOR DE 70 ANOS) O86 INSCRIÇÃO LIBERADA
027 CANCEL. (DUPLA INSERIÇÃO) 060 CANCEL. (INCAPACIDADE FÍSICA) 094 NÃO VOTOU NA SEÇÃO
1027 CARCEL (OUPLA INSERTION)
035 CACCA DEIXOU DE VOTAR 1 078 QUITOU - SE POR MULTA 108 VOTOU EM SEPARADO
VER TABELA DE SITUAÇÕES
O 4 3 CANCEL (PRAÇA DE PRÉ) INFORMAR O CÓDIGO, SE DIFERENTE DOS PREVISTOS NESTE FORMULARIO ; [2,2,1]
OS DATA OCORRÊNCIA DA SITUAÇÃO TO COMPLEMENTO DA SITUAÇÃO (VER TABELAS DE SITUAÇÕES)
11 DATA PREENCHIMENTO 12 MATRICULA E ASSINATURA DO FUNCIONARIO DU PREPARADOR ELEITORAL
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The voter record change form (Formulário de Acompanhamento da Situação do Eleitor -FASE) used in 1994 contained the following information:

- 1. empty field for data processing use
- 2. type of action (already completed with code for Indication of Status)
- 3. state
- 4. electoral zone
- 5. date of completion
- registration clerk's name and number

The following information is then completed for up to 10 voters:

- 1. name
- 2. voter registration number
- 3. options
 - a. cancellation because of death
 - b. cancellation because of duplicate registration
 - c. cancellation for not voting
 - d. suspension during obligatory military service (all other military personnel are eligible to vote)
 - e. cancellation for age over 70
 - f. cancellation for physical incapacity
 - g. situation resolved by payment of fine
 - h. registration approved following hold
 - i. did not vote in assigned location
 - j. voted special ballot
 - k. cancellation because of transfer
 - 1. cancellation by judicial order
 - m. cancellation because of foreign citizenship
 - n. justified not voting
 - o. selected to be poll worker
 - p. member of a political party
 - q. proven situation of twin or homonym
 - r. elected to public office
 - s. cancelled because of loss of political rights
 - t. political rights suspended
 - u. political rights reestablished
 - v. setenced to prison
 - w. reactivated after erroneous cancellation
 - x. cancelled after choosing to exercise political rights in Portugal
 - y. provisional registration

- z. blind
- aa. left political party
- ab. coincident names
- ac. unable to pay fine because of poverty
- ad. valid birth date
- ae. cancelled for electoral law infraction
- af. requested to vote abroad
- ag. cancelled because of irregular registration
- ah. chose Brazilian nationality
- ai. srestored after resolution of coincident name with suspended registration
- aj. restored after resolution of coincident name with individual whose political rights were revoked
- ak. voted absentee
- 4. date of situation necessitating change
- 5. additional information (from a separate table of options)



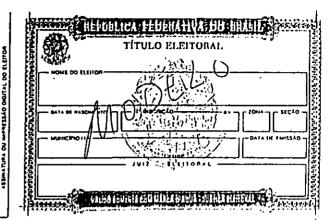
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NOME DO ELEITOR	04 Nº DE INSCRIÇÃO
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05 COD. SITUAÇÃO 06 DATA DE OCORRENCIA DA SITUAÇÃO 07 COMPLEMENTO DA SITUAÇÃ	lo .
NOME DO ELEITOR	OB NO DE INSCRIÇÃO
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09 COD. SITUAÇÃO 10 DATA DE OCORRÊNCIA DA SITUAÇÃO 11 COMPLEMENTO DA SITUAÇÃ	40
NOME DO ELEITOR	12 Nº DE INSCRIÇÃO
13 COD. SITUAÇÃO 14 DATA DE OCORRÊNCIA DA SITUAÇÃO 15 COMPLEMENTO DA SITUAÇÃ	40
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ROME DO ELEITOR	16 NO DE INSCRIÇÃO
17 COD. SITUAÇÃO 18 DATA DE OCORRÊNCIA DA SITUAÇÃO 19 COMPLEMENTO DA SITUAÇÃO	40
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	<u> </u>
NOME DO ELEITOR	20 Nº DE INSCRIÇÃO
21 COD. SITUAÇÃO 22 DATA DE OCORRÊNCIA DA SITUAÇÃO 23 COMPLEMENTO DA SITUAÇÃ	-
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	<u> </u>
NOME DO ELEITOR	24 Nº DE INSCRIÇÃO
25 COD. SITUAÇÃO 26 DATA DE OCORRENCIA DA SITUAÇÃO 27 COMPLEMENTO DA SITUAÇÃ	
23 DATA DE OCCUMENCIA DA SITUAÇÃO [27] COM CEMENTO DA SITUAÇÃO	
NOME DO ELEITOR	28 Nº DE INSCRIÇÃO
NOME DO ELETTOR	
29 COD. SITUAÇÃO 30 DATA DE OCORRÊNCIA DA SITUAÇÃO 31 COMPLEMENTO DA SITUAÇÃO	AO
NOME DO ELEITOR	32 Nº DE INSCRIÇÃO
	1
33 COD SITUAÇÃO 34 DATA DE OCORRÊNCIA DA SITUAÇÃO 35 COMPLEMENTO DA SITUAÇÃO	AO
NOME DO ELEITOR	36 Nº DE INSCRIÇÃO
,	
37 COD. SITUAÇÃO 38 DATA DE OCORRÊNCIA DA SITUAÇÃO 39 COMPLEMENTO DA SITUAÇÃO	AO
NOME DO ELEITOR	40 Nº DE INSCRIÇÃO
d 3	
U COD STUDICAD	
11 COD SITUAÇÃO 42 DATA DE OCORRENCIA DA SITUAÇÃO 43 COMPLEMENTO DA SITUAÇÃO	†~~ !
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APPENDIX D

The *Título Eleitoral* includes the voter's name, date of birth, registration number, electoral zone, voting section, municipality and state, date of issuance, and signature of the electoral judge on the front and the voter's signature or right thumbprint on the reverse. The *Protocolo de Entrega do Título Eleitoral* includes the voting location, voter's parents' names, voter's name, registration number, municipality of birth, gender, marital status, level of instruction, primary occupation, gender flag, marital status flag, level of instruction flag, course completed flag, occupational code, date of birth, birthplace/birthplace code, and a space for the voter's signature or thumbprint.

	REPÚBLICA FEDERATIVA DO BRASIL JUSTIÇA ELEITORAL
	PROTOCOLO DE ENTREGA DO TÍTULO ELEITORAL
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	CHAIR SIZING CAS
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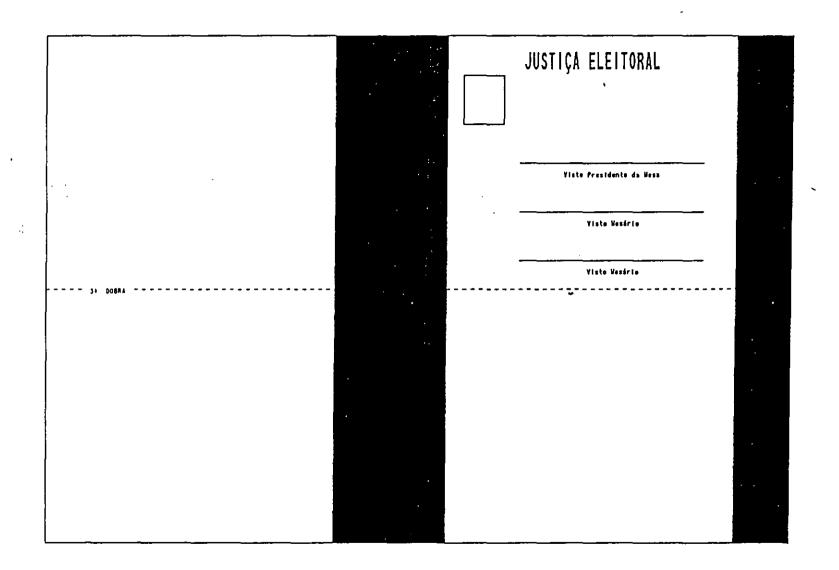
APPENDIX E

Sample Ballots

Majority Election Proportional Election

	JUSTIÇA	ELEITORAL	
PARA PRESIDENTE		PARA SENADOR	
= 45 - FERNANDO HENRIQUE 15 - ORESTES QUÉRCIA	PSDB PNDB	(ASSINALE COM "X" DOIS NOMES)	. [
36 - CARLOS GOMES	PRN PT		
13 - LULA 11 - ESPERIDIÃO AMIN	PPR	132 - PROFESSOR MARCOS HERTER 152 - CASILDO MALDANER	PT PNDB
20 – ALMIRANTE FORTUNA 56 – ENÉAS	PSC Prona	112 - LUIZ GOMES - LULA	PPR
12 - BRIZOLA "	PDT	362 - GIOVANI DE LIMA	PRN
PARA GOVERNADOR 121 - Nelson Wedekin	PDT	252 - VILSON KLEINUBING 222 - HONORATO ANTÔNIO TOMELIN	PFL
251 – JORGE KONDER BORNHAUSEN 151 – PAULO AFONSO	PFL PNDB	133 - LUCI CHOINASCKI	PT
111 - ANGELA AMIN	PPR	153 - DUWE ADEMAR	PMDB

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JUSTIÇA ELEITORAL

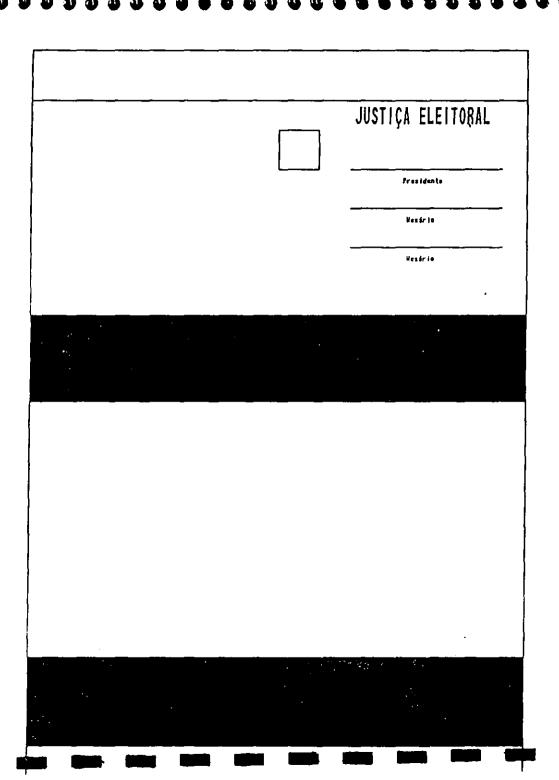
PARA DEPUTADO FEDERAL

(NOME OU Nº DO CANDIDATO OU SIGLA OU Nº DO PARTIDO)

PARA DEPUTADO ESTADUAL

(NOME OU Nº DO CANDIDATO OU SIGLA OU Nº DO PARTIDO)

BACK



APPENDIX F

Sample Ballot-Box Total Sheet (Boletim de Urna)

Santa Catarina (Majority Election)
Santa Catarina (Proportional Election)
São Paulo (Proportional Election)

	· TA			DE 03/10/94		С	ANRU. Alpātibolam)		01	/ <u>@</u>
1	MUNICÍPIO	<u> </u>		C00. WINICIPIO	ZONA		ATHIA DĀĢ	turi	<u>,</u>	COMPARECINENTO
1	QUADRO 100	PRES	IDENT	E				·	,	
٦٦		COL 1	COL 2		EQT 3	COL 4		COL 5	core	COL 7
-2	NOME CANDIDATO	H. CYKD	votos	MONZE CANDIDATO	H+ CAKO	20100	HOME CARDIDATO	No CYMD	VOTOS	FECHAMENTO
01	ESPERIOIAG AUTH	11		HERHANI FORTUNA	20	, · · · ·	ENEAS CARNETRO	56		
02	LEONEL BRIZOLA	12		FLAYIO ROCHA CURCEL	22		CAETAHA HATANO JUNIOR	70		
03	LUIZ I LULA SILVA	13		WALTER OUT IROZ	36		BRANCOS	95		
04	ORESTES: OUERCIA:	15		FERNANDO M. CARDOSO	45		NULOS	96		
97	SOMA		<u> </u>	SOMA	1		SOMA			
- ;	QUADRO 200	GOVE	RNADO	ĴR:			**************************************			y
اب		COL 1	COL 2		COL 3	COL 4	•	COL 5	COL 6	COL 7
-2	HOME CANDIDATO	H* CAKO	VOTOS	NOME CANDIDATO	IIº CAKO	VOTOS	KONE CAMDIDATO	ILS CYTO	VOTOS	FECHLIENTO
01	ANGELA ANTH HELOU	111		PAULO AFORSO VIEIRA	151		BRANCOS	95		
02	HELSON: DEDEKIN	121		JORCE K. BORKHAUSEN	251		NULOS	96		
97	SOMA			SOMA			SOMA	MATEN.		
	QUADRO: 300.									
L		COL 1	COL 2]	COL 3	COL 4		COL 5	COL 6	COL 7
N	HOVE CANDIDATO	H° CAKO	VOTOS	KOKE CARDIDATO	No CYKO	20109	HOVE CANDIDATO	Nº CANO	VOTOS	FECHALERTO .
01	LVIZ COVES	112		ADEKAR F. DÜRE	153		BRANCOS	95		
02	LUIS C. C. OLIVO	122	<u> </u>	HORORATO A. TOMELIN	222		NULOS	96		<u> </u>
03	LUCI T. CHOIHACKI	133	<u> </u>	VILSON P. KLEINUBING	252					
04	CASILDO J. HALDAHER	152		YOYO FIRM	362				100 100 100 100 100 100 100 100 100 100	
97	SOMA		<u> </u>	SOMA	**************************************		SOMA (D. DOBRO DO C	DYPAREC!)	<u> </u>	<u></u>
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COL MUNICIPIO ZONA SECTO AMPTA TUNKA COMPRECISENTO	DEPUTADO FEDERAL	PARTID L1	O PPR MOME CANDIDATO VASCO FURLAN ANTONIO CHIZZO KUCA BIENA FERNANDO HOFFAMIN SOMA O PDT	COL 3 Nº CAND. 1120 1123 1130	COL 4	HOME CANDIDATO PAULO BAUER LEGENDA	COL 5 N° CAKD. 1190	COL 6	COL 7
DITADO FEDERAL DIRO 411	DEPUTADO FEDERAL	PARTID L1	NOME CANDIDATO VASCO FURLAN ANTONIO CHIZZO HUCO BIENA FERNANDO HOFFAMIN SOMA O PDT	COL 3 M* CAND. 1120 1123 1130 1133	COL 4	NOME CANDIDATO PAULO BAUER LEGENDA	COL 5 M* CARO. 1190 11	COL 6	COL 7
COL 1	QUADRO 411	PARTID L1	HOME CANDIDATO VASCO FURLAN ANTONIO CHIZZO RUCO BIENA FERNANDO HOFFAMIN SOMA O PDT	Nº CAND. 1120 1123 1130 1133		PAULO BAUER LEGENDA SOMA	Nº CAKO. 1190	VOTOS	
COL 1 COL 2 ROME CANDIDATO R* CAND. VOTOS ROME CANDIDATO R* CAND. VOTOS ROME CANDIDATO R* CAND. VOTOS FECHAMENTO	COL 1 COL 2 NOISE CAMDIDATO N° CAND. VOTOS PECHALENTO PÂULO BAJER 1100 VASCO FURLAM 1120 PAULO BAJER 1190 VOTOS PECHALENTO PÂULO BAJER 11190 VOTOS PECHALENTO VOTOS PAULO BAJER VOTOS PECHALENTO VOTOS PECHALEN	CAND. VOTOS 101 111 112 113 PARTID L1 COL 2 CAND. YOTOS	HOME CANDIDATO VASCO FURLAN ANTONIO CHIZZO RUCO BIENA FERNANDO HOFFAMIN SOMA O PDT	Nº CAND. 1120 1123 1130 1133		PAULO BAUER LEGENDA SOMA	Nº CAKO. 1190	VOTOS	
DIDATO	ROME CANDIDATO Nº CAND. VOTOS NOME CANDIDATO Nº CAND. VOTOS ROME CANDIDATO Nº CAND. VOTOS FECHALENTO	CAND. VOTOS 101 111 112 113 PARTID L1 COL 2 CAND. VOTOS	VASCO FURLAN ANTONIO CHIZZO HUCO BIEHA FERNANDO HOFFAMIN SOMA	Nº CAND. 1120 1123 1130 1133		PAULO BAUER LEGENDA SOMA	Nº CAKO. 1190	VOTOS	
PAULO BAUER 1101	PRINT A. DEVIATE 1101 VASCO FURLAM 1120 PAULO BALER 1190 DATO A. P. ANTIGO 1111 ANTONIO CHIZZO 1123 LEGENDA 111 UNITO CAVALLAZZI 1112 MACA BIENA 1130 SOMA SOMA SOMA GUADRO 412 PARTIDO PDT COL 1 COL 2 NOME CANDIDATO N° CAND. VOTOS NOME CANDIDATO N° CAND. VOTOS NOME CANDIDATO N° CAND. VOTOS FECHALENTO COL 1 COL 2 VILÉDRE LARGE LAR	101 111 112 113 PARTID L1 COL 2 CANO. YOTOS	VASCO FURLAN ANTONIO CHIZZO HUCO BIEHA FERNANDO HOFFAMIN SOMA	1120 1123 1130 1133	VOTOS	PAULO BAUER LEGENDA SOMA	1190	7 (in)	FECHANENTO
AMTORIO	DAG A. P. AMYGO. 1111	111 112 113	ANTONIO CHIZZO NUCCO BIENA. FERNARDO HOFFAUNN SOMA O PDT	1123 1130 1133		LEGENDA	11		
MICA B ENLAND 1130	HASIO CAVALLAZZI	PARTID L 1 COL 2 CAKO. YOTOS	FERNANDO HOFFAMIN SOMA O PDT	1130		SOMA			
	SOMA	PARTID L 1 COL 2 CAND. YOTOS	SOMA O PDT	1133		SOMA	· · · · · · · · · · · · · · · · · ·		
DRO 412 PARTIDO PDT	COL 1	PARTID L 1 COL 2 CAND. YOTOS	SOMA O PDT			SOMA			
COL 1	COL 1	PARTID L 1 COL 2 CAND. YOTOS	O PDT	COL 3			. :		
COL 1	COL 1 COL 2 COL 3 COL 4 ROME CANDIDATO N° CAND. VOTOS ROME CANDIDATO N° CAND. VOTOS FECHALENTO	L 1 COL 2 CAND. VOTOS		COL 3	 -		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
COL 1	COL 1 COL 2 NOME CANDIDATO Nº CAND. VOTOS PECHAMENTO LEONEL PAVAN 1201 CESAR GAMIANI 1213 DERCIO KNOP 1234 ANDIONIO VERTON 1210 NOCI PELIZZETI 1224 ORLAND KRAUTLER 1261 SADY CAVIALNERO 1212 WILSON LANG. 1230 LEGENDA 12 SOMA SOMA SOMA OUADRO 413 PARTIDO PT COL 1 COL 2 COL 3 COL 4 NOME CANDIDATO Nº CAND. VOTOS NOME CANDIDATO Nº CAND. VOTOS FECHAMENTO ODAIR ARDRIANI 1310 WILTON GLIVEIRA 1333 VERA CASTELLAIN 1394 INCIR WITTUARN 1311 NOSE FRITSCH 1340 LEGENDA 13 OUADRO 414 PARTIDO PTB COL 1 COL 2 COL 3 COL 4 NOME CANDIDATO Nº CAND. VOTOS NOME CANDIDATO Nº CAND. VOTOS FECHAMENTO NOME CANDIDATO Nº CAND. VOTOS NOME CANDIDATO Nº CAND. VOTOS FECHAMENTO NOME CANDIDATO Nº CAND. SOMA OUADRO 414 PARTIDO PTB COL 1 COL 2 COL 3 COL 4 NOME CANDIDATO Nº CAND. SOMA OUADRO 414 PARTIDO PTB COL 1 COL 2 COL 3 COL 4 NOME CANDIDATO Nº CAND. VOTOS NOME CANDIDATO Nº CAND. VOTOS FECHAMENTO Nº C	CAND. VOTOS	NOME CANDIDATO	COL 3		, .			
VAN 1201 CESAR DANIANI 1213 DERCIO KROP 1234	LEGMEL PAYAN 1201		KOME CANDIDATO		COL 4		COL 5	COL 6	
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VENTON 1210 MOOC! PELIZZET! 1224 ORLANDO KRAUTLER 1261	ANDTORYIO VERTON 1210 HOOCI PELIZZETI 1224 GRLANDO KRAUTLER 1261 SADY CAVIALNEIRO 1212 WILSON LANG. 1230 LEGENDA 12 SOMA SOMA SOMA OUADRO 413 PARTIDO PT COL 1 COL 2 COL 3 COL 4 COL 5 COL 6 COL 7 NOME CANDIDATO N° CANO. VOTOS HOME CANDIDATO N° CANO. VOTOS HOME CANDIDATO N° CANO. VOTOS FECHAMENTO ODAIR: ANDRIANI 1310 MILTON OLIVEIRA 1333 VERA CASTELLAIN 1394 INCIR: WITTMANN 1311 MOSE: FRITSCH 1340 LEGENDA 13 VANIO: DOS: SANTOS 1313 JOAO: SOCAS 1346 SOMA SOMA SOMA QUADRO 414 PARTIDO PTB: COL 1 COL 2 COL 3 COL 4 NOME CANDIDATO N° CANO. VOTOS NOME CANDIDATO N° CANO. VOTOS ROME CANDIDATO N° CANO. VOTOS FECHAMENTO OUADRO 414 PARTIDO PTB: COL 1 COL 2 COL 3 COL 4 NOME CANDIDATO N° CANO. VOTOS NOME CANDIDATO N° CANO. VOTOS FECHAMENTO OUADRO 414 PARTIDO PTB: COL 1 COL 2 COL 3 COL 4 NOME CANDIDATO N° CANO. VOTOS ROME CANDIDATO N° CANO. VOTOS FECHAMENTO OUADRO 414 PARTIDO PTB: COL 1 COL 5 COL 6 COL 7 NOME CANDIDATO N° CANO. VOTOS ROME CANDIDATO N° CANO. VOTOS FECHAMENTO		CESAR DANIANI	1213		DERCIO KNOP	1234		
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02	ANDERLET ANTONE	ui 4	5111		NELSON O. DE	SOUZA	45133		•	SYALDO DA LI	UZ .	45195		
03	FRANCISCO A. KUS	TER 4	5113		OLDIR CALDAS		45145		u	ARCELO A.M.	RECO	45199		
04	ADMIR A BORTOLI	NI) 4	5120		JOSE C. FLORE	NCA	45 155		Ĺ	EGEND	À	45		
05	JOSE B. SILVEIRA	4	5121		OCTAVIO V. CO	AT2	45167			,:			<u> </u>	
06	PEDRO A. CAZANIC		5122		VILI VAZZINI		45170			· :			· · · · · · · · · · · · · · · · · · ·	
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01	JOAO CHIZONI		55 165				· · · · · ·		_	LEGEND		65	<u> </u>	
97	SOMA			<u>. </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·				SOMA			<u> </u>	, of a signatural stay of the
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01	PPR	11			PSC	20			Ρ¥	:	43			
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JUSTIÇA ELEITORAL TRIBUNAL REGIONAL ELEITORAL/SP ELEIÇÕES DE 03/10/94

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· PRESIDENTE SECRETÁR	RIO NOME	REP. COMITÉ INTER	PART. ASS. DO REI	PRESENTANTE		
						

DEPUTADO FEDERAL

	QUADRO 411		PARTIDO	PPR						
L		COL 1	COL 2		COT 3	COL 4]	COL 5	COL 6 .	COL 7
N	NOME CANDIDATO	Nº CAND.	VOTOS	NOME CANDIDATO	Nº CAND.	VOTOS	NOME CANDIDATO	Nº CANO.	VOTOS	FECHAMENTO
01	GASPARINI	1101		CARLINHOS	1125		ARNALDO F DE SÁ	1152		
02	ABREU NAPOLEÃO 📑	1102		ZÉ DA ESTRADA	1126		PEDRO MACEDO	1154		
03	MARTELLO ****	1103		MANÉ DOS DOCES 🖖	1127		DR. WAGNER	1155		
04	MARAO	1104		ALTINO FILHO	1128		JOSÉ TROVATO	1156		
05	EDUARDOFERNÂNDE	1105		MARCILIO CARRA	1129		DONA HENRIQUETA	1157		
06	PEDRO PAVÃO	1106		BOLSONARO	1130		PAULO NAVARRO	1159		
07	EVALDO SILVA	1107		ANTONIO DE NOCE	1131		ROGER LIN	1160		
08	APARECIDO OTAVI	1108		JERONIMO	1132		CUNHA BUENO-	1161	<u>.</u>	
09	CHIQUINHO CENI	1109		REYNALDO COSENZ=	1133 5		GERMANO, SIGAUD	1163		
10	GETULIO HANASHI	1110		SERGIO MAURANO	1134	·	NADIR GIDEAD	1164		
11	DELFIM NETTO	1111		MANGEL CARLOS	1135		RENATO CORDEIRO	1166		`
12	RICARDO IZAR	1112		SARGENTO BISPO	1136		MIGUEL FERNANDE.	1168		
13	SILVIO ROCHA	1113		CLEMENTINO TORR	1138		JOA CAITANO	1170		
14	AIRTON LAURIANO	1114		URUBATAN	1139		ANTONIO ELIAS	1176		1
15	TADASHL	1115		CHAFIC FARHAT	1140		ARMANDOPINHEIRO	1177		
16	JACY RIOS	1116		PAPAL NOEL	1141		GESOFATO VERNIN	1178		
17	EYMAEL	1117		WALDIR DE LIMA	1142		JURANDIR SALVAR	1180		
18	FRANCISCOMORAES	1118		MARCELINOROMANO	1144		AMIRAH SABA	1188		
19	LAZARO ALVES DA	1119		GRECCO	1146		OSMIR BIFANO	1189		
20	BETO MANSUR	1120		COMENDADOR	1147		CORONEL BRAGA	1190		
21	GENILSON SENCHE	1121		DR TOSHIO	1149	·	ां MARIA JOSÉ	1191		
22	ELISEU LEMES DA	1122		ALEXANDRETIOLE	1150		11 SARGENTO SENNA	1194		
23	EGON BRAUN	1123		ALVARO BIANCHIM	1151		J. "\$17 (527)	11		
97	SOMA	72772.5		SOMA	enague de Seja. La Tara		,	a de la compansión de l		

APPENDIX G

Sample BU Verification Printout

4- RELATÓRIOS

Espelho do BU

TRIBUNAL SUPERIOR ELEITORAL - TSE/RR SECRETARIA DE INFORMATICA ELEICOES GERAIS DE 1994 - DIGITACAO - Versão 1.3

09/09/94 as 16:42:2

Micro: 001 EL32018:

ESPELHO DO BU - URNA APURADA - ELEICAO MAJORITARIA

DIGITADOR [909] MUNICIPIO (03018 - EDA VISTA

[IONA (0001) SECAG [0041] JUNTA (0017] TURMA (0002) COMPAREC. [0480]

QUADRO LOG - PRESIDENTE

		COL, 1	COL 2		COT 3	COL 4		COL 5	COT &	COL 7
LII	NOME CAND.	H, CARO	Y 0105	NOME CAND.	N.CAKO	VOTOS	NOME CAND.	N.CANO	YOTOS	FECHANEUTO
61	ARMANDO	11	48	FRANCISCO	22	40	CANILO	45	50	158
02	JORGE	12	52	PAULO CESAR	25	55	BRANCOS	95	54	161
0.3	MARCELING	13	45	HAURO	41	78	KULOS	96	58	141
04	MARCOS	15	40							40
97	SOMA		185	SORA		133	SOMA		162	480

QUADRO 200 - SOYERKADOR

	COL 1	COL 2		COL 3	COL 4		CQL 5	COL 6	CQL 7
NOME CAND.	II. CARD	YOTOS	ROME CAND.	I.CAKO	VOTOS	NORE CAND.	II.CAJO	YOTOS	FECHALENTO
MOTRIA CINCTKA	121	85	CESAR AUGUSTO	LSI	60	BRANCOS	95	40	185
ELYERA ALZERA	131	75	CETULIO ALBERTO	451	80	MULOS	96	60	215
KEUDO RIBEIRO	141	80							80
SONA		240	SONA		110	SOMA		100	480
	ANTONIO AIRTON ELVIRA ALZIRA NEUDO RIBEIRO	NORE CAND. H.CARD ANTONIO AIRTON 121 ELVIRA ALZIRA 131 HEUDO RIBEIRO 141	NORE CAND. R.CARD YOTOS ANTONIO AIRTON 121 85 ELVIRA ALZIRA 131 75 NEUDO RIBEIRO 141 80	NORE CAND. N.CARD YOTOS BURE CAND. ANTONIO AIRTON 121 85 CESAR AUGUSTO ELVIRA ALZIRA 131 75 GETULIO ALBERTO NEUDO RIBEIRO 141 80	MORE CAND. R.CARD YOTOS HORE CAND. N.CAND ANTONIO AIRTON 121 85 CESAR AUGUSTO 151 ELVIRA ALZIRA 131 75 GETULIO ALBERTO 451 NEUDO RIBEIRO 141 80	NORE CAND. B.CARD VOTOS RORE CAND. B.CARD VOTOS ANTONIO MIRTON 121 85 CESAR AUGUSTO 151 60 ELVIRA ALZIRA 131 75 GETULIO ALBERTO 451 80 NEUDO RIBEIRO 141 BO	NORE CAND. R.CARD VOTOS RORE CAND. R.CARD VOTOS KORE CAND. ANTONIO RIRTON 121 85 CESAR AUGUSTO 151 60 BRANCOS ELVIRA ALZIRA 131 75 GETULIO ALBERTO 451 80 NULOS NEUDO RIBEIRO 141 80	NONE CAND. N.CARD YOTOS RORE CAND. N.CARD YOTOS RORE CAND. N.CARD ANTONIO AIRTON 121 85 CESAR AUGUSTO LSI 60 BRANCOS 95 ELVIRA ALZIRA 131 75 GETULIO ALBERTO 451 80 NULOS 96 NEUDO RIBEIRO 141 80 NULOS 96	NONE CAND. H.CARD VOTOS RORE CAND. H.CARD VOTOS RORE CAND. H.CARD VOTOS ANTONIO AIRTON 121 85 CESAR AUGUSTO L51 40 BRANCOS 95 40 ELVIRA ALZIRA 131 75 GETULIO ALBERTO 451 80 NULOS 96 60 NEUDO RIBEIRO 141 80 80 NULOS 96 60

QUADRO 300 - SENADOR

		COL 1	COL 2		cor 1	cat 4		COL 5	COL 6	COL 7
LIN	NORE CAND.	H.CAND	YO TOS	NOME CANO.	H,CARO	YOTOS	NOKE CAND.	1.CAND	10105	FECHAMENTO
01	ADMERO JUCA	112	L10	ANTONIO DE BRIT	143	210	FRANCISCO ADALB	442	\$2	. 372
02	JULIO ALCUSTO	122	115	BARAC DA SILVA	252	240	EXAMOS	95	35	390
41	HARLA MARLUCE	142	80	JAKIL JOSE	333	50	RULOS	16	- 48	196
97	SONA		305	SORA		500	SCHA		155	160

*** Comparecimento maior que aptos da secao (Abstenção negativa)

APPENDIX H

The Justificação Eleitoral (JE) includes the voter's name, state, electoral zone, date of birth, registration number, parents' names, place and date of completing the form, voter's signature or thumbprint, and stamp of the post office where the form was submitted. The form is prenumbered. The detachable receipt includes the matching serial number of the form, the name of the voter, the place and date of completing the form, and the stamp of the post office where the form was submitted. The receipt serves as proof of good standing vis-a-vis the electoral authorities.

JUSTIÇA ELEITORAL Nº 4510927	1	Nº 4510 Exmo. Sr. I	927 Or. Juiz Eleitoral.		CON	ROLE I	RE				
(NOME COMPLETO DO FLEHOR EM LETRA DE FORMA) ATRAVÉS DESTE COMPROVANTE DE REMESSA DE	 	ELEITOR INSCI CONTRANDO LEGISLAÇÃO	(NOMECOM RITO NESSA CIRCUNSCRIÇÃO, DE A SE AUSENTE DE SEU DOMICÍLIO EM VIGOR, A IMPOSSIBILIDADE	APLETO DO ELF ACORDO CO ELEITORAL, DE CUMPR				IONAI V. EX ADE D	DOS A S NOS NO VO	SEGUIF TERMO TO.	R, EN- OS DA
JUSTIFICAÇÃO ELEITORAL, DE MESMO NÚMERO,			DADOS DO T	ritulo de e	ELEITOR						
CAKIMBADO PELA AGENCIA DO CORREIO NA DATA	UF	ZONA	DATA DE MASCIMENTO	146 DE 1	INSCRIC	ÃO					
DA ELEIÇÃO, OU FELA REPARTIÇÃO CONSULAR	;		!			L					_L
BRASILEIRA EM ATÉ 30 DIAS APÓS, E DIRIGIDA AO IRIBUNAL REGRONAL NELA INDICADO, PROVA, FARA IODOS OS EFEITOS LEGAIS, REGULARIDADE				TKE							
PARA COM A JUSTIÇA ELEHORAL.	 	FILIAÇÃO	NOME DO PAI :						· *******		
			LOCAL E DATA		•						
C-10/B()		CAPUAGO	(ASSITIATURA OU INTERESSA) LIGEU	A()			-			Ollork	



EMPRESA BRASILEIRA DE CORREIOS E TELÉGRAFOS



Αo

TRIBUNAL REGIONAL ELEITORAL

INSTRUCÕES PARA O ELEITOR

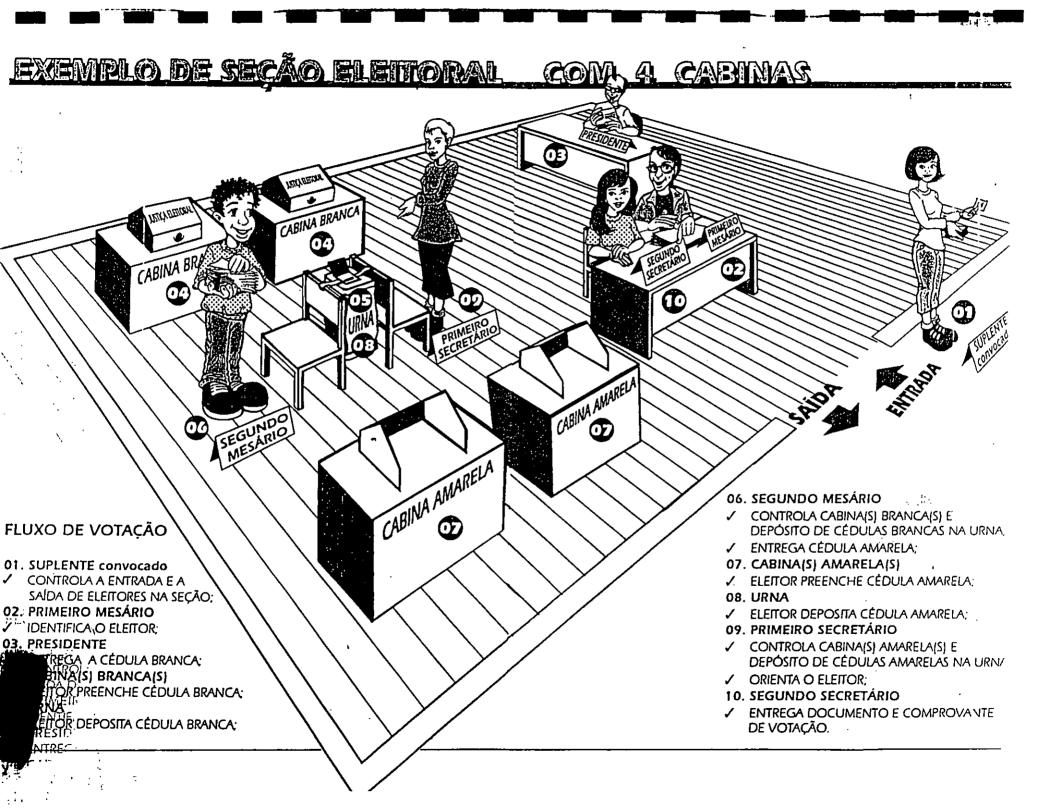
- 1 PREENCHA À MÁQUINA OU COM LETRA DE IMPRENSA E APRESENTE O FORMU-LÁRIO, NO DIA DA ELEIÇÃO, EM QUAL-QUER AGÊNCIA DOS CORREIOS OU RE-PARTIÇÃO CONSULAR, EM ATÉ 30 DIAS NA HIPÓTESE DE ESTAR EM TERRITÓ-RIO ESTRANGEIRO.
- 2 O FUNCIONÁRIO QUE O ATENDER APLI-CARÁ CARIMBO DE RECEPÇÃO NA PARTE DESTACÁVEL, QUE LHE SERÁ DEVOL-VIDA.
- 3 A PARTE DESTACÁVEL, DEVIDAMENTE ÇARIMBADA, É DOCUMENTO COMPRO-BATÓRIO DA JUSTIFICAÇÃO. SE NÃO VAI VOLTAR A RESIDIR NA ZONA ELEITO-RAL DE QUE É ELEITOR, REQUEIRA TRANSFERÊNCIA PARA A CIDADE EM QUE FOR MORAR. O NOVO TÍTULO, EXPEDIDO EM DATA POSTERIOR À ÚL-TIMA ELEIÇÃO, PROVARÁ A SUA QUI-TAÇÃO COM A JUSTIÇA ELEITORAL.

85800025-3

108 = 235 mm

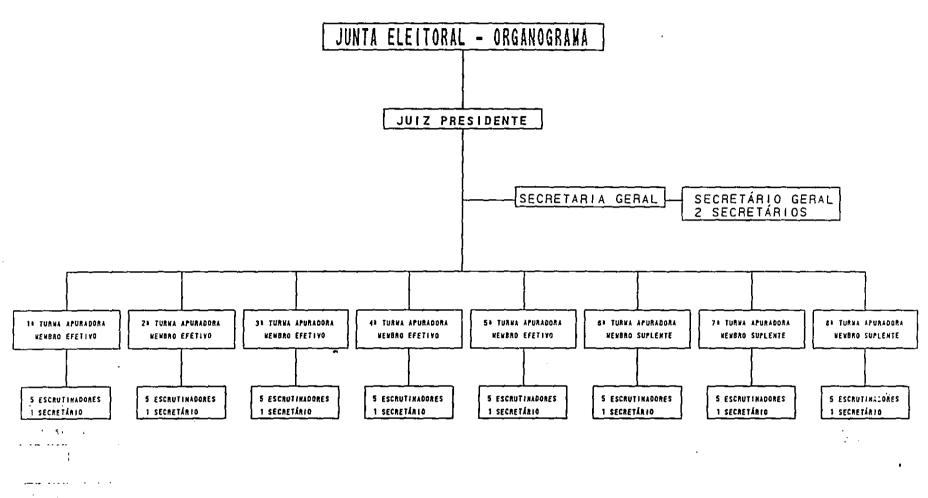
APPENDIX I

Layout of Typical Polling Station



APPENDIX J

Organization Chart of Vote Counting Center

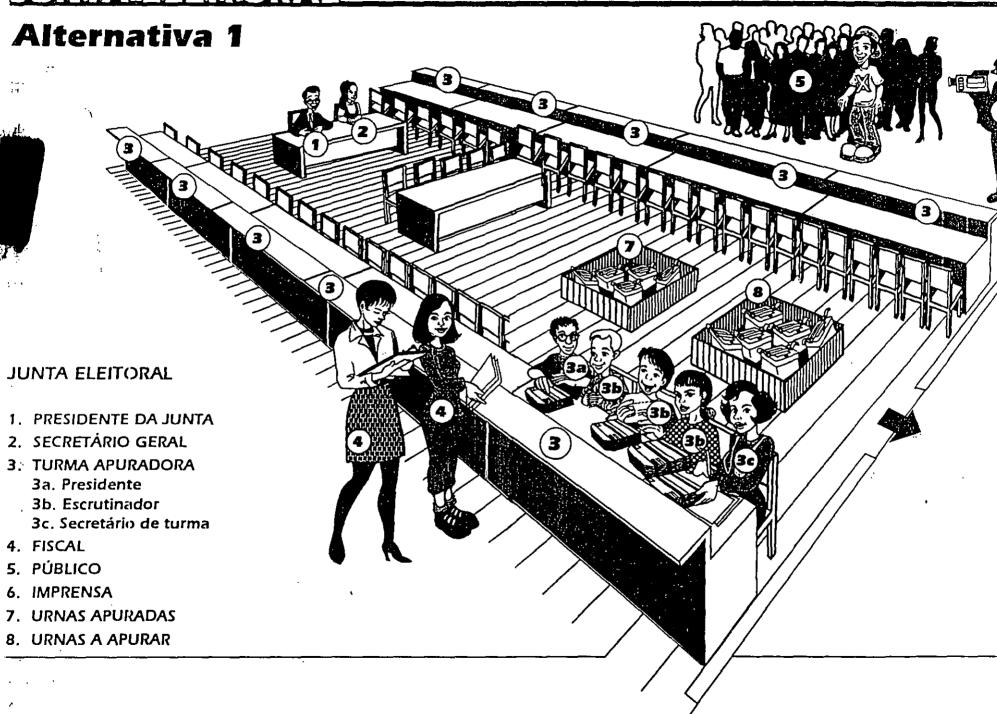


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APPENDIX K

Layout of Typical Vote Counting Center

JUNITA ELETTORAL



APPENDIX L

Election Administration Structure

Brazil 1994 Election Technology Assessment February 28, 1995

Brazil	Regional Electoral Tribunals	Electoral Zones (1993)	Polling Stations (1993)	Registered Voters (1993)
	Acre	8	766	237,001
	Alagoas	53	4,347	1,041,236
	Amapá	. 5	469	169,409
	Amazonas	57	3,067	1,012,167
	Bahia	229	22,821	6,701,738
	Ceará	101	15,124	3,809,457
	Distrito Federal	11	2,628	908,429
	Espirito Santo	50	5,735	1,618,431
	Goiás	120	8,064	2,514,553
	Maranhão	78	9,265	2,590,598
	Mato Grosso	36	4,128	1,196,767
	Mato Grosso do Sul	47	3,599	1,127,470
	Minas Gerais	300	31,642	10,116,796
	Pará	72	9,678	2,645,323
	Paraíba	75	7,851	1,986,939
Tribunal Superior	Paraná	173	17,823	5,495,947
Eleitoral	Pernambuco	137	13,551	4,246,992
	Piauí	94	5,123	1,553,389
	Rio de Janeiro	117	22,454	8,732,024
	Rio Grande do Norte	68	5,094	1,417,805
	Rio Grande do Sul	168	22,196	6,069,273
	Rondônia	19	2,258	661,331
	Roraima	2	370	101,947
	Santa Catarina	82	11,172	2,974,926
	São Paulo	365	41,143	19,812,703
	Sergipe	33	2,852	891,788
;	Tocantins	эсанина30	2,050	621,900

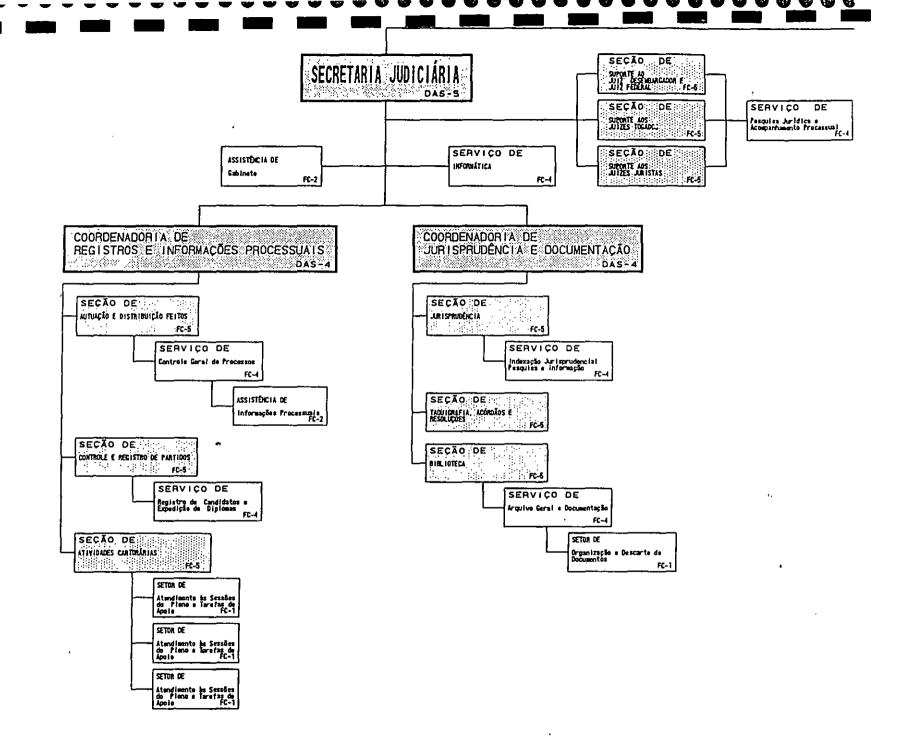
APPENDIX M

Organization Chart of TRE/SC

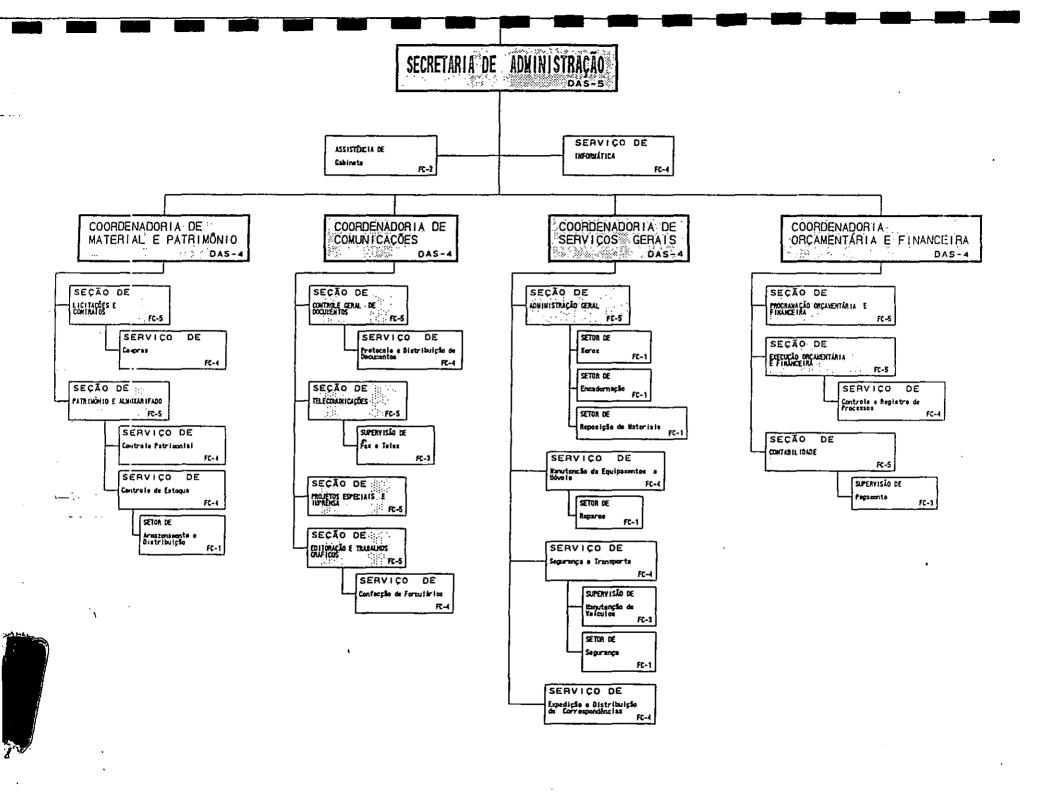
SERVIÇO DE

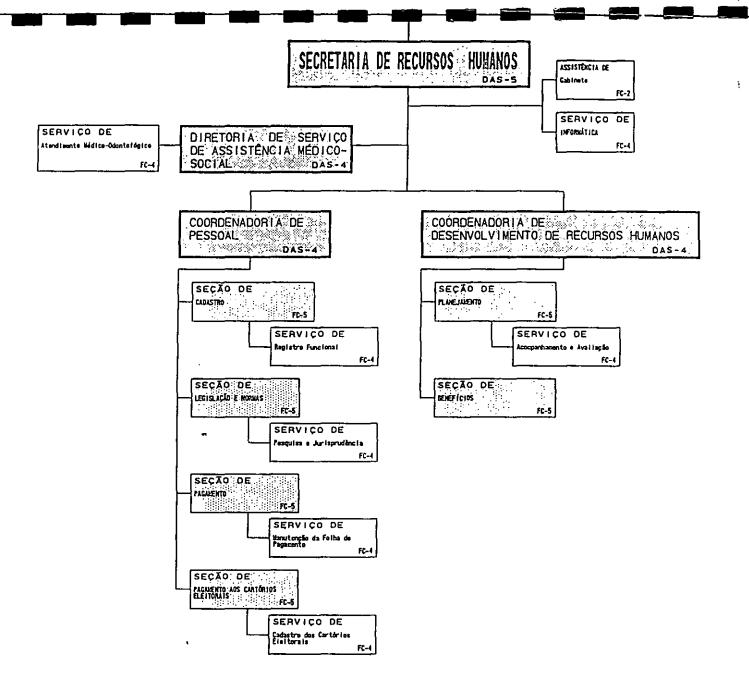
FC-4

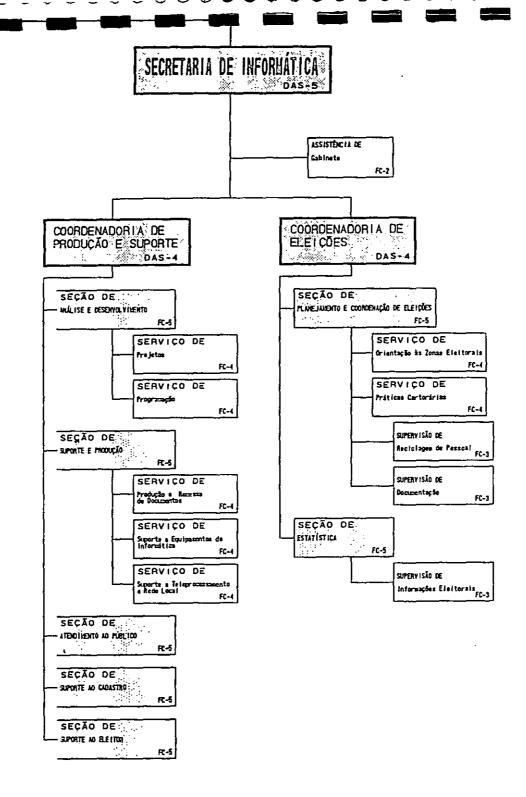
AUDITORIA



· L.







APPENDIX N

System Options Screen (TRE/RS, 1989)

The Opções do Sistema (System Options) screen included the following options (as of late 1989):

- 6. Registration
- 7. Replacement card
- 8. blank
- 9. Transfer to another state
- 10. blank
- 11. Cancellation
- 12. Voter history
- 13. Normalization of electoral situation
- 14. Transfer within state
- 15. Party affiliation
- 16. Party de-affiliation
- 17. Alteration of voter data
- 18. Transfer from another state
- 19. FASE processing (see appendix B)
- 20. Emit
- 21. Transfer control
- 22. Reactivate canceled registration
- 23. Did not vote in
- 24. Did not vote in 1988
- 25. Party affiliation

*** OPCOES DO SISTEMA ***

TRE Nome Inscricao

- Inscricao

Func.

02 - Segunda Via
03 14 - Transf. para outro Estado
15 06 - Cancelamento
17 - Historico
18 - Regularizacao Eleitoral
09 - Transf/Remanejo no Estado

🔟 - Filiacao Partidaria

11 - Desfiliação Partidoria 12 - Alteração de Dados do Eleitor 13 - Transf. Eleitor de Outro Palado 14 - Inclusão de Historicos/FASE 15 - Emissões 16 - Controle de Transferencias 17 - Partigação de Candelado 18 - Não Votou em ???? 19 - Não Votou em 1988

20 - Filiacao Partidaria

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Entre com a Opcao Desejada

APPENDIX O

Interviews

São Paulo

- Dr. Fernando Augusto Fontes Rodrigues, Director-General, Tribunal Regional Eleitoral de São Paulo (TRE/SP)
- Joaquim Marcos Paris de Godoy, Director of Computer Operations, TRE/SP
- Mariana Ferrer Ferreira, Coordinator, UNDP/Brazil Elections Assistance Project

Florianópolis

- Dr. Rogério Pereira, Director-General, Tribunal Regional Eleitoral de Santa Catarina (TRE/SC)
- Célio Santos de Assunção, Director of Computer Operations, TRE/SC
- Dr. Francisco Xavier Medeiros Vieira, President, TRE/SC

Brasília

- Dr. Torquato Jardim, Member, Tribunal Superior Eleitoral (TSE)
- Dr. José Paulo Sepúlveda Pertence, President, TSE
- Dr. Carlos Mário da Silva Velloso, President-Elect, TSE

APPENDIX P

Materials Collected for the F. Clifton White Resource Center at IFES

Electoral Legislation:

• Justiça Eleitoral. "Eleições 1994," Brasília: Imprensa Nacional, 1993.

Election Materials:

• Justiça Eleitoral. "Boletim de Urna," Brasília, 1994.

Users Manuals/Training Materials:

- Justiça Eleitoral. "Instruções para Mesários TRE/SP." São Paulo: Imprensa Oficial do Estado, 1994.
- Justiça Eleitoral. "Manual de Apuração Eleições 94." São Paulo: Imprensa Oficial do Estado, S.A., 1994.
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- Justiça Eleitoral. "Manual da Mesa Receptora Eleições 94." São Paulo: Imprensa Oficial do Estado, S.A., 1994.
- Tribunal Regional Eleitoral de Santa Catarina. "Cadastro de Eleitores, Manual de Procedimentos," Florianópolis, March 1994.
- Tribunal Regional Eleitoral de Santa Catarina. "Capacitação em MS-DOS 6.0," Florianópolis, October 1993.
- Training/information videotapes from October 1994 election.
- Tribunal Regional Eleitoral de Santa Catarina. "V Encontro de Juízes Eleitorais." Florianópolis, September 1994.
- Tribunal Regional Eleitoral de Santa Catarina. "III Encontro de Chefes de Cartório Eleitoral." Florianópolis, July 1994.

- Tribunal Regional Eleitoral de Santa Catarina. "Guia Prático do Preposto," Florianópolis, September 1994.
- Tribunal Regional Eleitoral de Santa Catarina. "Manual Básico Microcomputador e Impressora," Florianópolis, April 1992.
- Tribunal Regional Eleitoral de Santa Catarina. "Manual de Microcomputador DECpc LPx + e Impressora LG 570 +," Florianópolis, September 1994.
- Tribunal Regional Eleitoral de Santa Catarina. "Manual de Procedimentos nos Cartórios Eleitorais," Florianópolis, July 1994.
- Tribunal Regional Eleitoral de Santa Catarina. "Manual do Usuário, Jurisprudência Eleitoral," Florianópolis, October 1993.
- Tribunal Regional Eleitoral de Santa Catarina. "Manual do Usuário, Subsistema de Segurança e Instalação do ED e CED," Brasília, September 1994.
- Tribunal Regional Eleitoral de Santa Catarina. "Modelo de Teclado do Microcomputador da Cabine Eleitoral." (Poster) Plebiscite held on September 19, 1993, Municipality of Turvo, District of Ermo, 1993.
- Tribunal Regional Eleitoral de Santa Catarina. "Não Basta Pintar a Cara," (Brochure), 1994.
- Tribunal Regional Eleitoral de São Paulo. Civic education posters for October 1994 elections.
- Tribunal Regional Eleitoral de São Paulo, Poder Judiciário. "Roteiro e Calendário das Providências Preparatórias das Eleições de 1994." (Electoral Preparations Calendar).

Project Reports:

- Tribunal Regional Eleitoral de Santa Catarina. "Projeto de Cédula Eleitoral e Apuração Automatizada." Florianópolis, May 1992.
- Tribunal Regional Eleitoral de Santa Catarina. "Projeto Técnico Para Plebiscito Eletrônico."
 Plebiscite held on September 19, 1993, Municipality of Turvo, District of Ermo, 1993.
- Tribunal Regional Eleitoral de Santa Catarina. "Relatório das Atividades Sobre a Eleição Simulada Realizada no Distrito de Ribeirão da Ilha." Florianópolis, August 1994.

- Tribunal Regional Eleitoral de Santa Catarina. "Relatório Final da Campanha, 'Cidadania, Um Direito," Florianópolis, April-May, 1994.
- Tribunal Superior Eleitoral, Gerência Técnica do SINJE. "Projeto Sistema de Informática da Justiça Eleitoral." Secretaria de Informática, 1994.
- United Nations Development Programme. "1994 Country Programme."

News items/Miscellaneous:

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- Dicarlo, Lisa. "PCs give Brazil timely election results," PC Week, October 17, 1994.
- Resende, Juliana. "ONU se surpreende com eleição tranquila," <u>O Estado de São Paulo</u>, October 7, 1994.
- Tribunal Regional Eleitoral de Santa Catarina. <u>Resenha Eleitoral</u>. Volume 1, Number 1, July-December 1994.



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