

BAB V

KESIMPULAN DAN SARAN

5.1. Kesimpulan

Dari hasil pengamatan mulai tanggal 4 Januari 2001 sampai tanggal 3 Februari 2001 di Kebun Binatang Ragunan Jakarta, ditemukan :

1. 46 jenis burung liar dari 20 suku dimana terdapat jumlah jenis yang berbeda pada masing-masing lokasi pengamatan, Lokasi I : 42 jenis, Lokasi II : 38 jenis, Lokasi III : 36 jenis.
2. Keanekaragaman jenis burung liar secara keseluruhan mempunyai Indeks Keanekaragaman sebesar 0,9081, ini menunjukkan bahwa keanekaragaman jenis burung liar di Kebun Binatang Ragunan Jakarta mempunyai keanekaragaman yang tinggi. Keanekaragaman jenis burung per lokasi pengamatan yang paling tinggi terdapat pada lokasi II dengan Indeks Keanekaragaman sebesar 0,9183, diikuti dengan lokasi III dengan Indeks Keanekaragaman sebesar 0,9051, dan lokasi I dengan Indeks Keanekaragaman sebesar 0,8903.
3. Jenis burung yang mendominasi secara keseluruhan Kebun Binatang Ragunan Jakarta adalah Tekukur (23,39%), Cerukcuk (11,86%), Prenjak Sayap Garis (10,83%), Bondol Dada Sisik (4,60%), dan Bondol Jawa (4,39%), sedangkan yang mendominasi Lokasi I adalah Tekukur 27,55%, Cerukcuk 11,38%, Prenjak Sayap Garis 10,30%, Kutilang 5,39%, Kepodang 4,91%, Lokasi II adalah Tekukur 20,66%, Cerukcuk 11,07%, Prenjak Sayap Garis 9,92%, Bondol Dada Sisik

9,42%, Burung Cabe 5,45%, dan Lokasi III adalah Tekukur 18,92%, Cerukcuk 14,00%, Prenjak Sayap Garis 14,00%, Bondol Jawa 10,32%, Bondol Maluku 10,07%.

4. Lokasi II mempunyai pemerataan (*evenness*) maksimum sebesar 0,9416, diikuti Lokasi III sebesar 0,9287, dan pemerataan (*evenness*) minimum pada Lokasi I sebesar 0,9109. Hal ini menunjukkan Lokasi II memiliki penyebaran burung yang paling baik dibandingkan dengan lokasi lain.

5.2 Saran

Kawasan Kebun Binatang Ragunan Jakarta mempunyai keanekaragaman jenis yang tinggi, sehingga habitatnya perlu dipelihara dan dipertahankan bagi kelestarian jenis burung liar di kawasan tersebut.

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Tabel Keanekaragaman Jenis Lokasi I

| No. | Nama Burung | ni | ni/(ni-1) | ni/(ni-1) N(N-1) |
|-----|------------------------|-----|-----------|---------------------|
| 1 | Tekukur | 230 | 52670 | 0,0733304 |
| 2 | Prenjak Sayap Garis | 86 | 7310 | 0,01017743 |
| 3 | Cerukcuk | 95 | 8930 | 0,012432893 |
| 4 | Kutilang | 45 | 1980 | 0,002756677 |
| 5 | Burung Cabe | 27 | 702 | 0,000977367 |
| 6 | Cinenen Kelabu | 31 | 930 | 0,001294803 |
| 7 | Kepodang | 41 | 1640 | 0,002283308 |
| 8 | Burung gereja | 29 | 812 | 0,001130516 |
| 9 | Kipasan | 19 | 342 | 0,000476153 |
| 10 | Kucica | 16 | 240 | 0,000334143 |
| 11 | Jalak Putih | 27 | 702 | 0,000977367 |
| 12 | Betet | 32 | 992 | 0,001381123 |
| 13 | Bondol Jawa | 21 | 420 | 0,00058475 |
| 14 | Gelatik Batu | 9 | 72 | 0,000100243 |
| 15 | Kipasan mutiara | 8 | 56 | 7,796666E-05 |
| 16 | Jalak Suren | 16 | 240 | 0,000334143 |
| 17 | Prenjak Daun | 14 | 182 | 0,000253392 |
| 18 | Madu Merah | 3 | 6 | 8,35357E-06 |
| 19 | Cipoh | 4 | 12 | 1,67071E-05 |
| 20 | Bondol Dada Sisik | 16 | 240 | 0,000334143 |
| 21 | Kareo | 4 | 12 | 1,67071E-05 |
| 22 | Kowak Malam | 2 | 2 | 2,78452E-06 |
| 23 | Kakaktua Jambul kuning | 1 | 0 | 0 |
| 24 | Cekakak | 1 | 0 | 0 |
| 25 | Ciu Kecil | 6 | 30 | 4,17678E-05 |

| | | | | |
|----|-------------------------|-----|-------|-------------|
| 26 | Bondol Maluku | 12 | 132 | 0,000183778 |
| 27 | Raja Udag | 3 | 6 | 8,35357E-06 |
| 28 | Anis Merah | 5 | 20 | 2,78452E-05 |
| 29 | Cinenen Biasa | 3 | 6 | 8,35357E-06 |
| 30 | Meninting | 0 | 0 | 0 |
| 31 | Srindit | 2 | 2 | 2,78452E-06 |
| 32 | Cabe Hutan | 2 | 2 | 2,78452E-06 |
| 33 | Blekok Sawah | 1 | 0 | 0 |
| 34 | Prenjak Coklat | 1 | 0 | 0 |
| 35 | Madu Kuning | 1 | 0 | 0 |
| 36 | Bentet | 1 | 0 | 0 |
| 37 | Kowak Melayu | 0 | 0 | 0 |
| 38 | Sepah Kecil | 6 | 30 | 4,17678E-05 |
| 39 | Prenjak Kuning | 6 | 30 | 4,17678E-05 |
| 40 | Perkutut | 2 | 2 | 2,78452E-06 |
| 41 | Burung Isap Madu | 0 | 0 | 0 |
| 42 | Bentet Loreng | 0 | 0 | 0 |
| 43 | Madu Merah Ekor Panjang | 1 | 0 | 0 |
| 44 | Sikatan Pantat Kuning | 1 | 0 | 0 |
| 45 | Prenjak Sisi Merah | 4 | 12 | 1,67071E-05 |
| 46 | Bondol Haji | 1 | 0 | 0 |
| | | 835 | 78764 | 0,109660065 |

Indeks keanekaragaman (D) = $1 - 0,109668419 = 0,890331581$

Tabel Keanekaragaman Jenis Lokasi II

| No. | Nama Burung | ni | ni/(ni-1) | ni/(N-1) |
|-----|------------------------|-----|-----------|-------------|
| 1 | Tekukur | 125 | 15500 | 0,040387722 |
| 2 | Prenjak Sayap Garis | 57 | 3192 | 0,008317265 |
| 3 | Cerukcuk | 67 | 4422 | 0,011522226 |
| 4 | Kutilang | 18 | 306 | 0,000797332 |
| 5 | Burung Cabe | 33 | 1056 | 0,002751576 |
| 6 | Cinenen Kelabu | 20 | 380 | 0,000990151 |
| 7 | Kepodang | 5 | 20 | 5,21132E-05 |
| 8 | Burung gereja | 14 | 182 | 0,00047423 |
| 9 | Kipasan | 12 | 132 | 0,000343947 |
| 10 | Kucica | 24 | 552 | 0,001438324 |
| 11 | Jalak Putih | 1 | 0 | 0 |
| 12 | Betet | 1 | 0 | 0 |
| 13 | Bondol Jawa | 18 | 306 | 0,000797332 |
| 14 | Gelatik Batu | 4 | 12 | 3,12679E-05 |
| 15 | Kipasan mutiara | 5 | 20 | 5,21132E-05 |
| 16 | Jalak Suren | 2 | 2 | 5,21132E-06 |
| 17 | Prenjak Daun | 5 | 20 | 5,21132E-05 |
| 18 | Madu Merah | 6 | 30 | 7,81698E-05 |
| 19 | Cipoh | 6 | 30 | 7,81698E-05 |
| 20 | Bondol Dada Sisik | 60 | 3540 | 0,009224035 |
| 21 | Kareo | 5 | 20 | 5,21132E-05 |
| 22 | Kowak Malam | 19 | 342 | 0,000891136 |
| 23 | Kakaktua Jambul kuning | 0 | 0 | 0 |
| 24 | Cekakak | 24 | 552 | 0,001438324 |
| 25 | Ciu Kecil | 2 | 2 | 5,21132E-06 |

| | | | | |
|----|-------------------------|------------|--------------|--------------------|
| 26 | Bondol Maluku | 12 | 132 | 0,000343947 |
| 27 | Raja Udang | 3 | 6 | 1,5634E-05 |
| 28 | Anis Merah | 1 | 0 | 0 |
| 29 | Cinenen Biasa | 10 | 90 | 0,000234509 |
| 30 | Meninting | 4 | 12 | 3,12679E-05 |
| 31 | Srindit | 0 | 0 | 0 |
| 32 | Cabe Hutan | 4 | 12 | 3,12679E-05 |
| 33 | Blekok Sawah | 10 | 90 | 0,000234509 |
| 34 | Prenjak Coklat | 9 | 72 | 0,000187607 |
| 35 | Madu Kuning | 0 | 0 | 0 |
| 36 | Bentet | 1 | 0 | 0 |
| 37 | Kowak Melayu | 12 | 132 | 0,000343947 |
| 38 | Sepah Kecil | 0 | 0 | 0 |
| 39 | Prenjak Kuning | 0 | 0 | 0 |
| 40 | Perkutut | 1 | 0 | 0 |
| 41 | Burung Isap Madu | 2 | 2 | 5,21132E-06 |
| 42 | Bentet Loreng | 2 | 2 | 5,21132E-06 |
| 43 | Madu Merah Ekor Panjang | 0 | 0 | 0 |
| 44 | Sikatan Pantat Kuning | 1 | 0 | 0 |
| 45 | Prenjak Sisi Merah | 0 | 0 | 0 |
| 46 | Bondol Haji | 0 | 0 | 0 |
| | | 605 | 31168 | 0,081213195 |

Indeks keanekaragaman (D) = $1 - 0,081687425 = 0,918312575$

Tabel Keanekaragaman Jenis Lokasi III

| No. | Nama Burung | ni III | ni(ni-1) N(N-1) | $\frac{ni(ni-1)}{N(N-1)}$ |
|-----|------------------------|-----------|--------------------|---------------------------|
| 1 | Tekukur | 77 | 5852 | 0,033095804 |
| 2 | Prenjak Sayap Garis | 57 | 3192 | 0,018052257 |
| 3 | Cerukcuk | 57 | 3192 | 0,018052257 |
| 4 | Kutilang | 17 | 272 | 0,001538288 |
| 5 | Burung Cabe | 17 | 272 | 0,001538288 |
| 6 | Cinenen Kelabu | 12 | 132 | 0,000746522 |
| 7 | Kepodang | 4 | 12 | 6,78656E-05 |
| 8 | Burung gereja | 15 | 210 | 0,001187648 |
| 9 | Kipasan | 5 | 20 | 0,000113109 |
| 10 | Kucica | 3 | 6 | 3,39328E-05 |
| 11 | Jalak Putih | 1 | 0 | 0 |
| 12 | Betet | 0 | 0 | 0 |
| 13 | Bondol Jawa | 42 | 1722 | 0,009738717 |
| 14 | Gelatik Batu | 3 | 6 | 3,39328E-05 |
| 15 | Kipasan mutiara | 3 | 6 | 3,39328E-05 |
| 16 | Jalak Suren | 3 | 6 | 3,39328E-05 |
| 17 | Prenjak Daun | 1 | 0 | 0 |
| 18 | Madu Merah | 4 | 12 | 6,78656E-05 |
| 19 | Cipoh | 7 | 42 | 0,00023753 |
| 20 | Bondol Dada Sisik | 9 | 72 | 0,000407194 |
| 21 | Kareo | 1 | 0 | 0 |
| 22 | Kowak Malam | 1 | 0 | 0 |
| 23 | Kakaktua Jambul kuning | 1 | 0 | 0 |
| 24 | Cekakak | 3 | 6 | 3,39328E-05 |
| 25 | Ciu Kecil | 5 | 20 | 0,000113109 |

| | | | | |
|----|-------------------------|------------|--------------|--------------------|
| 26 | Bondol Maluku | 41 | 1640 | 0,009274969 |
| 27 | Raja Udag | 2 | 2 | 1,13109E-05 |
| 28 | Anis Merah | 1 | 0 | 0 |
| 29 | Cinenen Biasa | 2 | 2 | 1,13109E-05 |
| 30 | Meninting | 0 | 0 | 0 |
| 31 | Srindit | 1 | 0 | 0 |
| 32 | Cabe Hutan | 1 | 0 | 0 |
| 33 | Blekok Sawah | 1 | 0 | 0 |
| 34 | Prenjak Coklat | 0 | 0 | 0 |
| 35 | Madu Kuning | 1 | 0 | 0 |
| 36 | Bentet | 2 | 2 | 1,13109E-05 |
| 37 | Kowak Melayu | 1 | 0 | 0 |
| 38 | Sepah Kecil | 0 | 0 | 0 |
| 39 | Prenjak Kuning | 0 | 0 | 0 |
| 40 | Perkutut | 0 | 0 | 0 |
| 41 | Burung Isap Madu | 0 | 0 | 0 |
| 42 | Bentet Loreng | 0 | 0 | 0 |
| 43 | Madu Merah Ekor Panjang | 1 | 0 | 0 |
| 44 | Sikatan Pantat Kuning | 0 | 0 | 0 |
| 45 | Prenjak Sisi Merah | 0 | 0 | 0 |
| 46 | Bondol Haji | 5 | 20 | 0,000113109 |
| | | 407 | 16718 | 0,094548128 |

Indeks keanekaragaman (D) = $1 - 0,094864834 = 0,905135166$

Tabel Dominasi Relatif Lokasi I-III

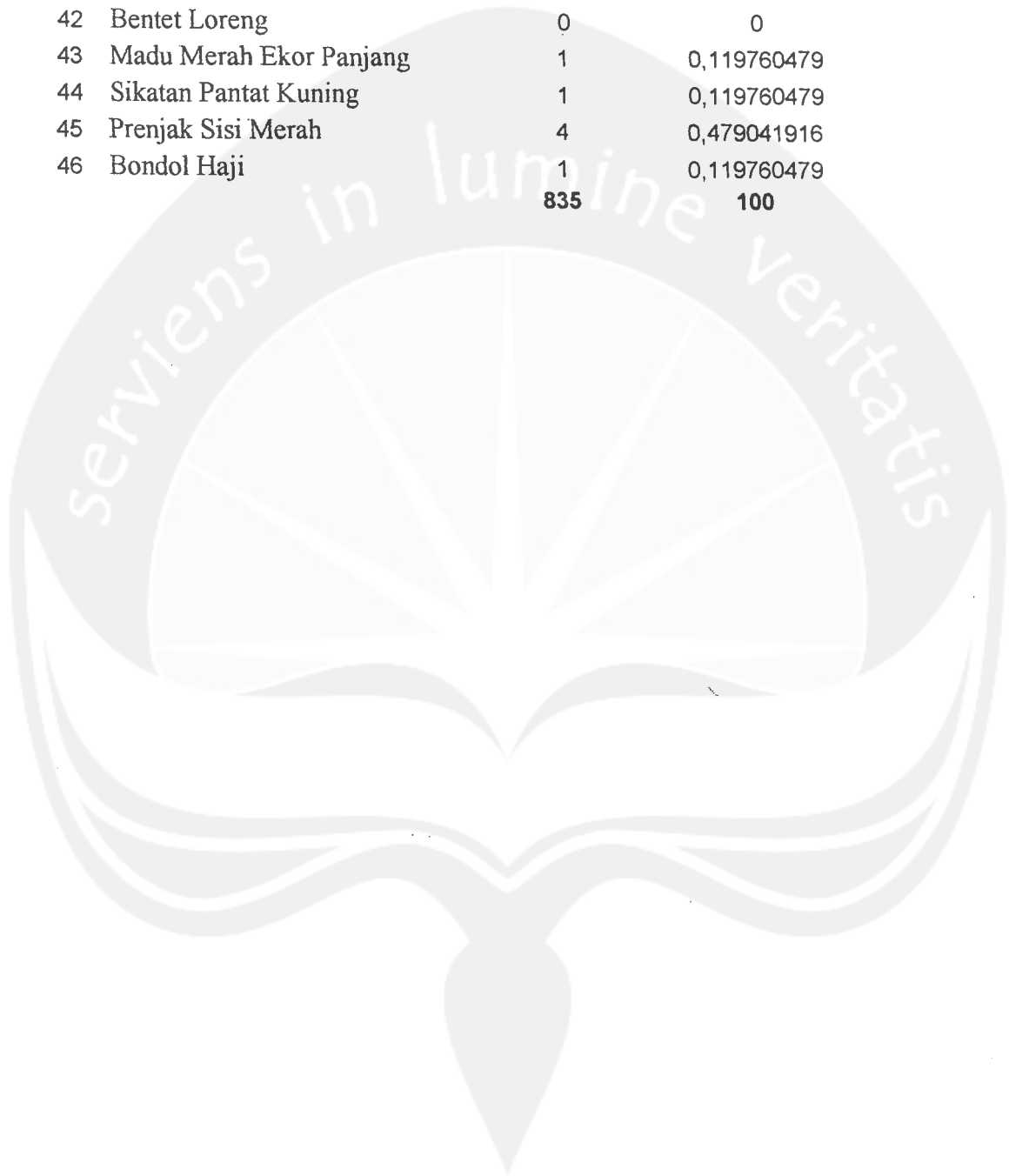
| No. | Nama Burung | ni I | ni II | ni III | Total ni | Dominasi Relatif (%) |
|-----|------------------------|------|-------|--------|----------|----------------------|
| 1 | Tekukur | 230 | 125 | 77 | 432 | 23,38927991 |
| 2 | Prenjak Sayap Garis | 86 | 57 | 57 | 200 | 10,82837033 |
| 3 | Cerukcuk | 95 | 67 | 57 | 219 | 11,85706551 |
| 4 | Kutilang | 45 | 18 | 17 | 80 | 4,331348132 |
| 5 | Burung Cabe | 27 | 33 | 17 | 77 | 4,168922577 |
| 6 | Cinenen Kelabu | 31 | 20 | 12 | 63 | 3,410936654 |
| 7 | Kepodang | 41 | 5 | 4 | 50 | 2,707092583 |
| 8 | Burung gereja | 29 | 14 | 15 | 58 | 3,140227396 |
| 9 | Kipasan | 19 | 12 | 5 | 36 | 1,949106659 |
| 10 | Kucica | 16 | 24 | 3 | 43 | 2,328099621 |
| 11 | Jalak Putih | 27 | 1 | 1 | 29 | 1,570113698 |
| 12 | Betet | 32 | 1 | 0 | 33 | 1,786681104 |
| 13 | Bondol Jawa | 21 | 18 | 42 | 81 | 4,385489984 |
| 14 | Gelatik Batu | 9 | 4 | 3 | 16 | 0,866269626 |
| 15 | Kipasan mutiara | 8 | 5 | 3 | 16 | 0,866269626 |
| 16 | Jalak Suren | 16 | 2 | 3 | 21 | 1,136978885 |
| 17 | Prenjak Daun | 14 | 5 | 1 | 20 | 1,082837033 |
| 18 | Madu Merah | 3 | 6 | 4 | 13 | 0,703844071 |
| 19 | Cipoh | 4 | 6 | 7 | 17 | 0,920411478 |
| 20 | Bondol Dada Sisik | 16 | 60 | 9 | 85 | 4,60205739 |
| 21 | Kareo | 4 | 5 | 1 | 10 | 0,541418517 |
| 22 | Kowak Malam | 2 | 19 | 1 | 22 | 1,191120736 |
| 23 | Kakaktua Jambul kuning | 1 | 0 | 1 | 2 | 0,108283703 |
| 24 | Cekakak | 1 | 24 | 3 | 28 | 1,515971846 |

| | | | | | | |
|-----|-------------------------|-----|-----|-----|------|--------------|
| 25 | Ciu Kecil | 6 | 2 | 5 | 13 | 0,703844071 |
| 26 | Bondol Maluku | 12 | 12 | 41 | 65 | 3,5192220357 |
| 27 | Raja Udang | 3 | 3 | 2 | 8 | 0,433134813 |
| 28 | Anis Merah | 5 | 1 | 1 | 7 | 0,378992962 |
| 29 | Cinenen Biasa | 3 | 10 | 2 | 15 | 0,812127775 |
| 30 | Meninting | 0 | 4 | 0 | 4 | 0,216567407 |
| 31 | Srindit | 2 | 0 | 1 | 3 | 0,162425555 |
| 32 | Cabe Hutan | 2 | 4 | 1 | 7 | 0,378992962 |
| 33 | Blekok Sawah | 1 | 10 | 1 | 12 | 0,64970222 |
| 34 | Prenjak Coklat | 1 | 9 | 0 | 10 | 0,541418517 |
| 356 | Madu Kuning | 1 | 0 | 1 | 2 | 0,108283703 |
| 36 | Bentet | 1 | 1 | 2 | 4 | 0,216567407 |
| 37 | Kowak Melayu | 0 | 12 | 1 | 13 | 0,703844071 |
| 38 | Sepah Kecil | 6 | 0 | 0 | 6 | 0,32485111 |
| 39 | Prenjak Kuning | 6 | 0 | 0 | 6 | 0,32485111 |
| 40 | Perkutut | 2 | 1 | 0 | 3 | 0,162425555 |
| 41 | Burung Isap Madu | 0 | 2 | 0 | 2 | 0,108283703 |
| 42 | Bentet Loreng | 0 | 2 | 0 | 2 | 0,108283703 |
| 43 | Madu Merah Ekor Panjang | 1 | 0 | 1 | 2 | 0,108283703 |
| 44 | Sikatan Pantat Kuning | 1 | 1 | 0 | 2 | 0,108283703 |
| 45 | Prenjak Sisi Merah | 4 | 0 | 0 | 4 | 0,216567407 |
| 46 | Bondol Haji | 1 | 0 | 5 | 6 | 0,32485111 |
| | | 835 | 605 | 407 | 1847 | 100 |

Tabel Dominasi Relatif Lokasi I

| No. | Nama Burung | ni I | Dominasi Relatif (%) |
|-----|------------------------|---------|-------------------------|
| 1 | Tekukur | 230 | 27,54491018 |
| 2 | Prenjak Sayap Garis | 86 | 10,2994012 |
| 3 | Cerukcuk | 95 | 11,37724551 |
| 4 | Kutilang | 45 | 5,389221557 |
| 5 | Burung Cabe | 27 | 3,233532934 |
| 6 | Cinenen Kelabu | 31 | 3,71257485 |
| 7 | Kepodang | 41 | 4,910179641 |
| 8 | Burung gereja | 29 | 3,473053892 |
| 9 | Kipasan | 19 | 2,275449102 |
| 10 | Kucica | 16 | 1,916167665 |
| 11 | Jalak Putih | 27 | 3,233532934 |
| 12 | Betet | 32 | 3,832335329 |
| 13 | Bondol Jawa | 21 | 2,51497006 |
| 14 | Gelatik Batu | 9 | 1,077844311 |
| 15 | Kipasan mutiara | 8 | 0,958083832 |
| 16 | Jalak Suren | 16 | 1,916167665 |
| 17 | Prenjak Daun | 14 | 1,676646707 |
| 18 | Madu Merah | 3 | 0,359281437 |
| 19 | Cipoh | 4 | 0,479041916 |
| 20 | Bondol Dada Sisik | 16 | 1,916167665 |
| 21 | Kareo | 4 | 0,479041916 |
| 22 | Kowak Malam | 2 | 0,239520958 |
| 23 | Kakaktua Jambul kuning | 1 | 0,119760479 |
| 24 | Cekakak | 1 | 0,119760479 |
| 25 | Ciu Kecil | 6 | 0,718562874 |
| 26 | Bondol Maluku | 12 | 1,437125749 |
| 27 | Raja Udang | 3 | 0,359281437 |
| 28 | Anis Merah | 5 | 0,598802395 |
| 29 | Cinenen Biasa | 3 | 0,359281437 |
| 30 | Meninting | 0 | 0 |
| 31 | Srindit | 2 | 0,239520958 |
| 32 | Cabe Hutan | 2 | 0,239520958 |
| 33 | Blekok Sawah | 1 | 0,119760479 |
| 34 | Prenjak Coklat | 1 | 0,119760479 |
| 35 | Madu Kuning | 1 | 0,119760479 |

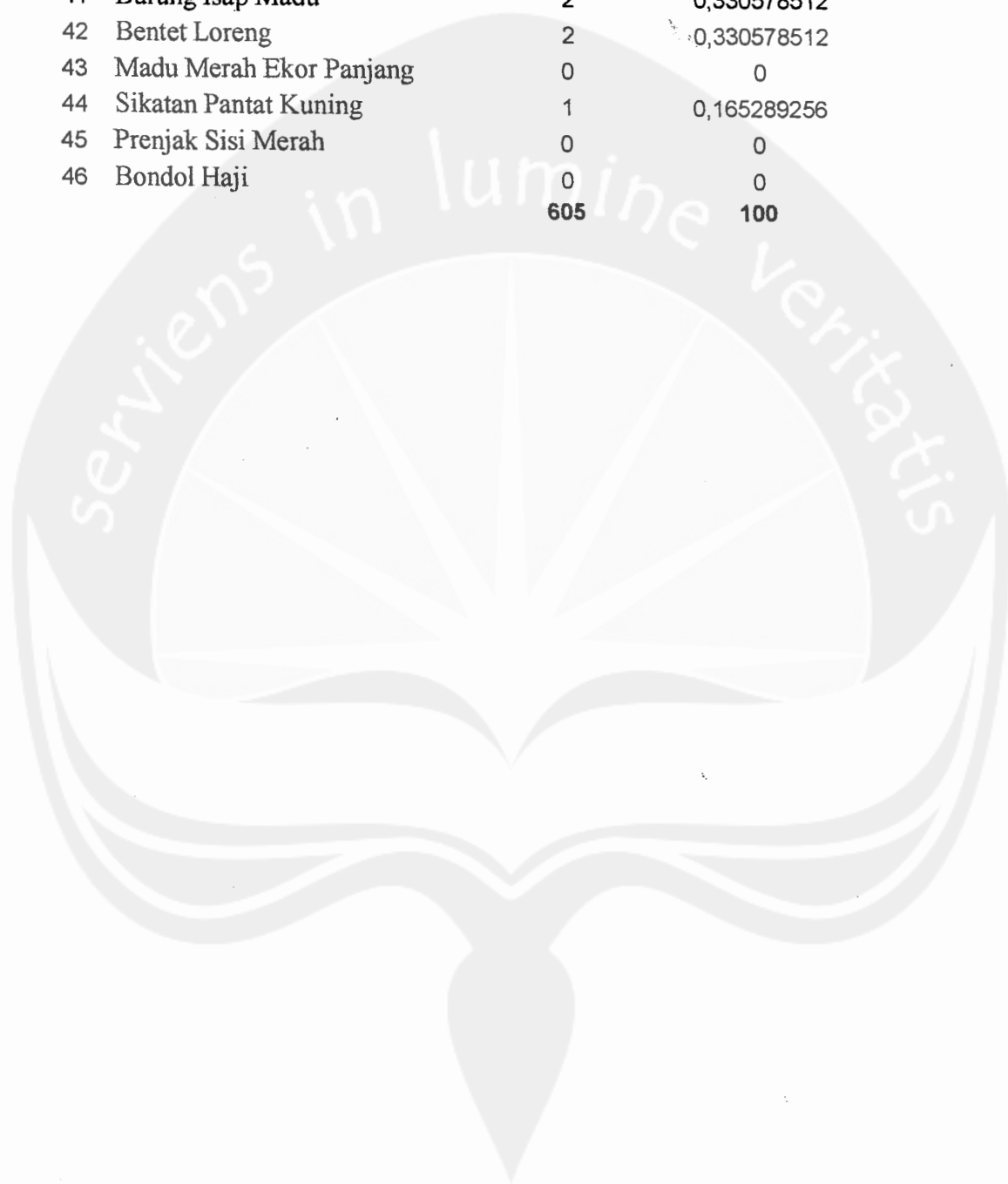
| | | | |
|----|-------------------------|------------|-------------|
| 36 | Bentet | 1 | 0,119760479 |
| 37 | Kowak Melayu | 0 | 0 |
| 38 | Sepah Kecil | 6 | 0,718562874 |
| 39 | Prenjak Kuning | 6 | 0,718562874 |
| 40 | Perkutut | 2 | 0,239520958 |
| 41 | Burung Isap Madu | 0 | 0 |
| 42 | Bentet Loreng | 0 | 0 |
| 43 | Madu Merah Ekor Panjang | 1 | 0,119760479 |
| 44 | Sikatan Pantat Kuning | 1 | 0,119760479 |
| 45 | Prenjak Sisi Merah | 4 | 0,479041916 |
| 46 | Bondol Haji | 1 | 0,119760479 |
| | | 835 | 100 |



Tabel Dominasi Relatif Lokasi II

| No. | Nama Burung | ni II | Dominasi Relatif (%) |
|-----|------------------------|----------|-------------------------|
| 1 | Tekukur | 125 | 20,66115702 |
| 2 | Prenjak Sayap Garis | 57 | 9,421487603 |
| 3 | Cerukcuk | 67 | 11,07438017 |
| 4 | Kutilang | 18 | 2,975206612 |
| 5 | Burung Cabe | 33 | 5,454545455 |
| 6 | Cinene Kelabu | 20 | 3,305785124 |
| 7 | Kepodang | 5 | 0,826446281 |
| 8 | Burung gereja | 14 | 2,314049587 |
| 9 | Kipasan | 12 | 1,983471074 |
| 10 | Kucica | 24 | 3,966942149 |
| 11 | Jalak Putih | 1 | 0,165289256 |
| 12 | Betet | 1 | 0,165289256 |
| 13 | Bondol Jawa | 18 | 2,975206612 |
| 14 | Gelatik Batu | 4 | 0,661157025 |
| 15 | Kipasan mutiara | 5 | 0,826446281 |
| 16 | Jalak Suren | 2 | 0,330578512 |
| 17 | Prenjak Daun | 5 | 0,826446281 |
| 18 | Madu Merah | 6 | 0,991735537 |
| 19 | Cipoh | 6 | 0,991735537 |
| 20 | Bondol Dada Sisik | 60 | 9,917355372 |
| 21 | Kareo | 5 | 0,826446281 |
| 22 | Kowak Malam | 19 | 3,140495868 |
| 23 | Kakaktua Jambul kuning | 0 | 0 |
| 24 | Cekakak | 24 | 3,966942149 |
| 25 | Ciu Kecil | 2 | 0,330578512 |
| 26 | Bondol Maluku | 12 | 1,983471074 |
| 27 | Raja Udang | 3 | 0,495867769 |
| 28 | Anis Merah | 1 | 0,165289256 |
| 29 | Cinene Biasa | 10 | 1,652892562 |
| 30 | Meninting | 4 | 0,661157025 |
| 31 | Srindit | 0 | 0 |
| 32 | Cabe Hutan | 4 | 0,661157025 |
| 33 | Blekok Sawah | 10 | 1,652892562 |
| 34 | Prenjak Coklat | 9 | 1,487603306 |
| 35 | Madu Kuning | 0 | 0 |

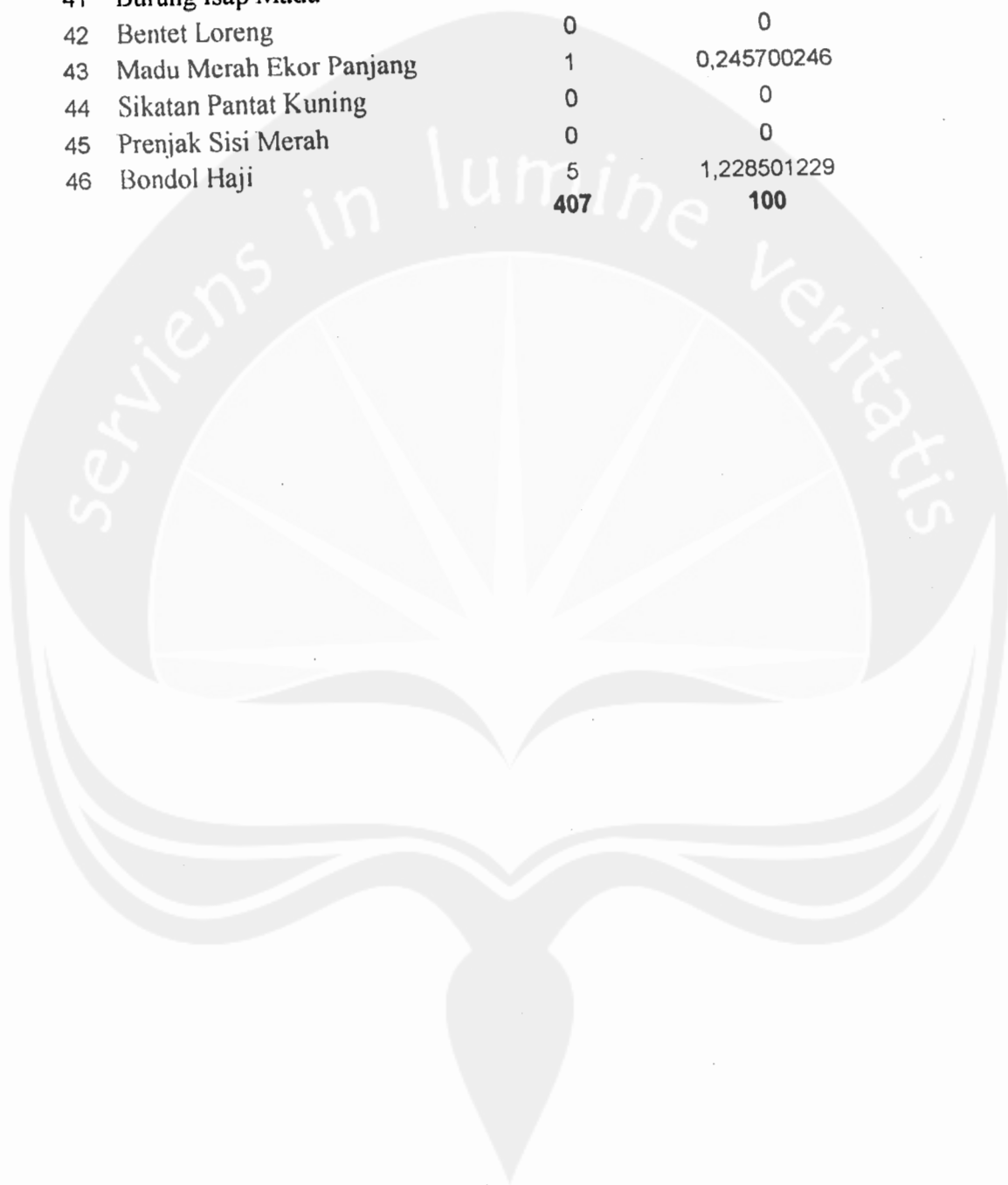
| | | | |
|----|-------------------------|------------|-------------|
| 36 | Bentet | 1 | 0,165289256 |
| 37 | Kowak Melayu | 12 | 1,983471074 |
| 38 | Sepah Kecil | 0 | 0 |
| 39 | Prenjak Kuning | 0 | 0 |
| 40 | Perkutut | 1 | 0,165289256 |
| 41 | Burung Isap Madu | 2 | 0,330578512 |
| 42 | Bentet Loreng | 2 | 0,330578512 |
| 43 | Madu Merah Ekor Panjang | 0 | 0 |
| 44 | Sikatan Pantat Kuning | 1 | 0,165289256 |
| 45 | Prenjak Sisi Merah | 0 | 0 |
| 46 | Bondol Haji | 0 | 0 |
| | | 605 | 100 |



Tabel Dominasi Relatif Lokasi III

| No. | Nama Burung | ni III | Dominasi Relatif (%) |
|-----|------------------------|-----------|-------------------------|
| 1 | Tekukur | 77 | 18,91891892 |
| 2 | Prenjak Sayap Garis | 57 | 14,004914 |
| 3 | Cerukcuk | 57 | 14,004914 |
| 4 | Kutilang | 17 | 4,176904177 |
| 5 | Burung Cabe | 17 | 4,176904177 |
| 6 | Cinene Kelabu | 12 | 2,948402948 |
| 7 | Kepodang | 4 | 0,982800983 |
| 8 | Burung gereja | 15 | 3,685503686 |
| 9 | Kipasan | 5 | 1,228501229 |
| 10 | Kucica | 3 | 0,737100737 |
| 11 | Jalak Putih | 1 | 0,245700246 |
| 12 | Betet | 0 | 0 |
| 13 | Bondol Jawa | 42 | 10,31941032 |
| 14 | Gelatik Batu | 3 | 0,737100737 |
| 15 | Kipasan mutiara | 3 | 0,737100737 |
| 16 | Jalak Suren | 3 | 0,737100737 |
| 17 | Prenjak Daun | 1 | 0,245700246 |
| 18 | Madu Merah | 4 | 0,982800983 |
| 19 | Cipoh | 7 | 1,71990172 |
| 20 | Bondol Dada Sisik | 9 | 2,211302211 |
| 21 | Kareo | 1 | 0,245700246 |
| 22 | Kowak Malam | 1 | 0,245700246 |
| 23 | Kakaktua Jambul kuning | 1 | 0,245700246 |
| 24 | Cekakak | 3 | 0,737100737 |
| 25 | Ciu Kecil | 5 | 1,228501229 |
| 26 | Bondol Maluku | 41 | 10,07371007 |
| 27 | Raja Udang | 2 | 0,491400491 |
| 28 | Anis Merah | 1 | 0,245700246 |
| 29 | Cinene Biasa | 2 | 0,491400491 |
| 30 | Meninting | 0 | 0 |
| 31 | Srindit | 1 | 0,245700246 |
| 32 | Cabe Hutan | 1 | 0,245700246 |
| 33 | Blekok Sawah | 1 | 0,245700246 |
| 34 | Prenjak Coklat | 0 | 0 |
| 35 | Madu Kuning | 1 | 0,245700246 |

| | | | |
|----|-------------------------|------------|-------------|
| 36 | Bentet | 2 | 0,491400491 |
| 37 | Kowak Melayu | 1 | 0,245700246 |
| 38 | Sepah Kecil | 0 | 0 |
| 39 | Prenjak Kuning | 0 | 0 |
| 40 | Perkutut | 0 | 0 |
| 41 | Burung Isap Madu | 0 | 0 |
| 42 | Bentet Loreng | 0 | 0 |
| 43 | Madu Merah Ekor Panjang | 1 | 0,245700246 |
| 44 | Sikatan Pantat Kuning | 0 | 0 |
| 45 | Prenjak Sisi Merah | 0 | 0 |
| 46 | Bondol Haji | 5 | 1,228501229 |
| | | 407 | 100 |



Kemerataan /evenness (E) :

Lokasi I :

$$\begin{aligned} N &= 835 \\ S &= 42 \\ D &= 0,8903 \end{aligned}$$

$$\begin{aligned} I &= \frac{N}{S} \\ &= \frac{835}{42} = 19,881 \end{aligned}$$

$$\begin{aligned} J &= (N - (S)(I)) \\ &= (835 - (42)(19,881)) \\ &= -0,002 \end{aligned}$$

$$\begin{aligned} D_{\max} &= 1 - \left[\frac{I(2J + S(I - 1))}{N(N - 1)} \right] \\ &= 1 - \left[\frac{19,881(2 \cdot -0,002 + 42(19,881 - 1))}{835(835 - 1)} \right] \\ &= 0,9774 \end{aligned}$$

$$E = \frac{D}{D_{\max}}$$

$$\begin{aligned} E &= \frac{0,8903}{0,9774} \\ &= 0,9109 \end{aligned}$$

Lokasi II :

$$\begin{aligned} N &= 605 \\ S &= 38 \\ D &= 0,9183 \end{aligned}$$

$$\begin{aligned} I &= \frac{N}{S} \\ &= \frac{605}{38} = 15,921 \end{aligned}$$

$$\begin{aligned} J &= (N - S)(I) \\ &= (605 - 38)(15,921) \\ &= 0,002 \end{aligned}$$

$$\begin{aligned} D_{\max} &= 1 - \left[\frac{I(2J + S(1 - I))}{N(N - 1)} \right] \\ &= 1 - \left[\frac{15,921(2 \cdot 0,002 + 38(15,921 - 1))}{605(605 - 1)} \right] \\ &= 0,9753 \end{aligned}$$

$$E = \frac{D}{D_{\max}}$$

$$E = \frac{0,9183}{0,9753}$$

$$= 0,9416$$

Lokasi III :

$$\begin{aligned} N &= 407 \\ S &= 36 \\ D &= 0,9051 \end{aligned}$$

$$I = \frac{N}{S} = \frac{407}{36} = 11,035$$

$$\begin{aligned} J &= (N - (S)(I)) \\ &= (407 - (36)(11,035)) \\ &= 0,02 \end{aligned}$$












$$\begin{aligned} D_{\max} &= 1 - \left[\frac{1(2J + S(I-1))}{N(N-1)} \right] \\ &= 1 - \left[\frac{11,305(2 \cdot 0,02 + 36(11,305 - 1))}{407(407 - 1)} \right] \\ &= 0,9746 \end{aligned}$$

$$E = \frac{D}{D_{\max}}$$

$$E = \frac{0,9051}{0,9746}$$

$$= 0,9287$$



- KETERANGAN
-  BATAS PERENCANAAN
 -  RUANG PARKIR
 -  LOKET / POS
 -  STASIUN / TERMINAL
 -  PUSAT INFORMASI
 -  PERKANTORAN KBR
 -  KANDANG TERTUTUP
 -  KANDANG TERBUKA
 -  PANGGUNG
 -  CHILD PLAY GROUND
 -  KIOS / KANTIN

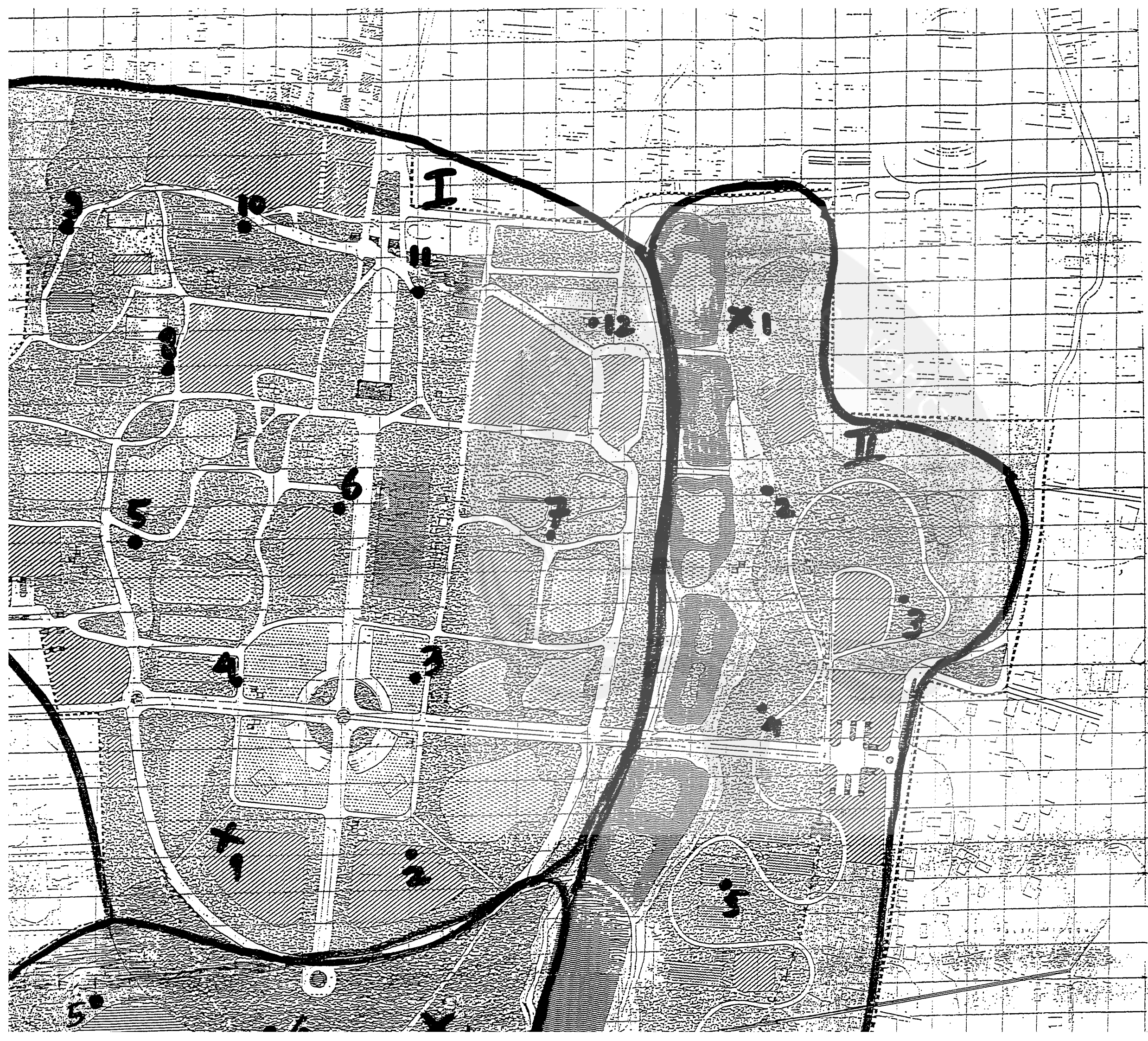


PT. PERENCANAAN INDONESIA

RENCANA PERENCANAAN
RENCANA PENGGUNAAN

| | |
|--------------|----|
| SKALA 1:400 | KC |
| DIGAMBAR : | |
| DIPERIKSA : | |
| DIBETULKAN : | |

MASTER PLAN KEBUN BINATANG RAGUN TAHUN 2000



KETERANGAN

| | | | |
|--|--------------------|--|-----------------|
| | BATAS PERENCANAAN | | KANDANG S... |
| | RUANG PARKIR | | TAMAN |
| | LOKET / POS | | RUANG TERB... |
| | STASIUN / TERMINAL | | FASILITAS PE... |
| | PUSAT INFORMASI | | REKREASI |
| | PERKANTORAN KBR | | CAMPING G... |
| | KANDANG TERTUTUP | | KOLAM REN... |
| | KANDANG TERBUKA | | TAMAN PAN... |
| | PANGGUNG | | PENGHILAU... |
| | CHILD PLAY GROUND | | TAMAN BUA... |
| | KIOS / KANTIN | | |



RENCANA PERENCANAAN INDUK KBR

RENCANA PENGGUNAAN TAI