PERANAN BERBAGAI ZAT MAKANAN TERHADAP TINGKAT PRODUKTIVITAS BURUNG UNTA (Struthio camelus)

FARDONI ALFAN

PROGRAM STUDI ILMU TERNAK
PROGRAM PASCASARJANA
INSTITUT PERTANIAN BOGOR
2000
PERANAN BERBAGAI ZAT MAKANAN TERHADAP TINGKAT PRODUKTIVITAS BURUNG UNTA (*Struthio camelus*)

Oleh:
FARDONI ALFAN
NRP: 98079

Tesis sebagai salah syarat untuk memperoleh gelar magister sains pada
Program Pascasarjana Institut Pertanian Bogor

PROGRAM STUDI ILMU TERNAK
PROGRAM PASCASARJANA
INSTITUT PERTANIAN BOGOR
2000
Judul Penelitian : Peranan Berbagai Zat Makanan Terhadap Tingkat Produktivitas Burung Unta (Struthio camelus)
Nama Mahasiswa : Fardoni Alfan
Nomor Pokok : 98079
Program Studi : Ilmu Ternak

Menyetujui:

1. Komisi Pembimbing

Prof. Dr. D.T.H. Sihombing, M.Sc.
Ketua

Prof. Dr. Juju Wahju, M.Sc.
Anggota

Prof. Dr. Lily Amalia Sofyan, M.Sc.
Anggota

2. Ketua Program Studi

Prof. Dr. Adi Sudono, M.Sc

3. Direktur Program Pascasarjana

Prof. Dr. Syahrinda Manuwoto

13 Sep 2000
RINGKASAN


Metodologi yang digunakan pada penelitian ini berupa analisis data kandungan zat makanan dalam ransum yang berasal dari Laboratorium Nutrisi dan Makanan Ternak Fakultas Peternakan IPB dengan produktivitas burung unta yang berasal dari PT. Ostricharta Lestari. Data aspek lingkungan berupa kondisi klimatologi diperoleh dari Unit Pendidikan dan Pelatihan Peternakan Jonggol Fakultas Peternakan IPB. Analisis korelasi digunakan untuk melihat keeratan hubungan antara zat makanan dan produktivitas burung unta, regresi linier berganda digunakan untuk mencari model hubungan tersebut sehingga dapat diketahui kelebihan dan kekurangan masing-masing zat makanan terhadap produktivitas yang ingin diketahui.
diketahui kelebihan dan kekurangan masing-masing zat makanan terhadap produktifitas yang ingin diketahui.

Hasil yang didapat menunjukkan tidak adanya korelasi yang kuat antara produktifitas dengan zat makanan kecuali berat telur yang mempunyai korelasi cukup kuat dengan kadar abu, kalsium, fosfor dan BETN. Hal ini menunjukkan bahwa produktifitas tidak dapat dipengaruhi oleh salah atau zat makanan saja.


Beberapa zat makanan seperti kadar abu, kalsium, dan fosfor mempunyai hubungan cukup kuat dengan berat telur dan bernilai positif, sedangkan kadar BETN berperan menurunkan berat telur. Kurangnya kadar lemak yang ditunjukkan oleh koefisien regresi yang tinggi menimbulkan kecergaan pada kurangnya asam linoleat ransum yang dapat menyebabkan penurunan berat telur yang hebat.

Kadar lemak, Ca, P, dan BETN mempunyai pengaruh yang tinggi pada tingkat fertilitas. Kalsium bagi burung unta betina dibutuhkan untuk pembentukan cangkang telur, tetapi bagi yang jantan justru berperan menurunkan absorpsi Zn yang penting pada produksi sperma normal. BETN dan lemak berperan menyediakan vitamin atau asam lemak yang penting untuk fertilitas.
Energi yang tinggi diperlukan bagi proses penetasan. Selain itu, faktor manajemen penanganan telur ternyata lebih dominan dalam mempengaruhi tinggi rendahnya daya tetas.

Kadar mineral yang cukup diperlukan untuk menaikkan berat tetas. Fase awal pertumbuhan burung unta yang sangat cepat membutuhkan rangka tubuh yang kuat untuk menopang berat badan. Deformitas pada kaki merupakan kasus yang sering terjadi pada anak burung unta, kelainan ini dapat ditekan dengan menurunkan kadar protein ransum untuk menghambat pertumbuhan.

Berat cangkang kurang dapat dipakai sebagai indikator kualitas cangkang, karena cangkang yang lebih berat bukan berarti lebih tebal. Oleh karena itu tidak ditemukan rumusan model bagi zat makanan penyusun ransum.

Berdasarkan penjelasan di atas, dapat disimpulkan bahwa tiap-tiap variabel produktifitas mempunyai sensitifitas tersendiri terhadap zat makanan. Selain aspek nutrisi dan lingkungan, aspek manajemen mempunyai peranan yang cukup besar dalam mempengaruhi produktifitas burung unta.
RIWAYAT HIDUP

Penulis dilahirkan pada tanggal 6 Juni 1975 di Kediri, Jawa Timur, sebagai anak pertama dari tiga bersaudara pasangan Ahmad Sahri dan Siti Rubiatun.


KATA PENGANTAR


Pada kesempatan ini penulis mengucapkan terima kasih yang sebesar-besarnya kepada:

1. Prof. Dr. D.T.H. Sihombing, M.Sc. sebagai ketua komisi pembimbing, Prof. Dr. Juju Wahju, M.Sc. dan Prof. Dr. Lily Amalia Sofyan, M.Sc. sebagai anggota komisi pembimbing, karena berkat bimbingannya yang tulus dan sabar membuat penulis dapat menyelesaikan tesis ini.
2. Prof. Dr. Adi Sudono, M.Sc. selaku Ketua Program Studi Ilmu Ternak, yang selalu memberikan koreksi positif untuk kemajuan penulisan pada khususnya dan program studi ilmu ternak pada umumnya.
3. Pimpinan PT. Ostricharta Lestari yang telah memberikan ijin melakukan penelitian pada area peternakan burung unta yang dikelola.
4. Mas Ari, Mas Moko, Mbak Andi, Mbak Monika, Titin, Aris, Pak Asas, Asral, Erit, Mak Jujuk, dan segenap kru PT. Ostricharta Lestari yang tidak mungkin penulis sebut satu persatu yang telah membuat penulis kerasan selama penelitian.
5. Ayah dan Ibuku yang secara tulus telah memeras keringat setiap hari dengan harapan anaknya dapat menyelesaikan studi setinggi-tingginya.

6. Adik-adikku Buyung dan Nia yang turut memberi semangat ketika penulis mengalami kebosanan.

7. Teman-temanku di Program Studi Ilmu Ternak (khususnya Pak Kenedy) yang selama ini selalu menemani penulis selama hampir 2 tahun untuk bersama-sama berusaha menggapai cita-cita.


10. Pihak-pihak lain yang berperan selama studi yang tidak mungkin penulis sebut namanya satu per satu.

Penulis menyadari bahwa laporan ini mempunyai banyak sekali kelemahan dan kekurangan, oleh karena itu saran-saran yang bersifat membangun senantiasa penulis nantikan. Penulis juga mohon ma’af pada semua pihak atas segala kekhilafan yang diperbuat secara sengaja maupun tidak sengaja.

Bogor, Agustus 2000

Penulis
<table>
<thead>
<tr>
<th>Section</th>
<th>Halaman</th>
</tr>
</thead>
<tbody>
<tr>
<td>KATA PENGANTAR</td>
<td>viii</td>
</tr>
<tr>
<td>DAFTAR ISI</td>
<td>ix</td>
</tr>
<tr>
<td>DAFTAR TABEL</td>
<td>x</td>
</tr>
<tr>
<td>DAFTAR LAMPIRAN</td>
<td>xi</td>
</tr>
<tr>
<td>PENDAHULUAN</td>
<td>1</td>
</tr>
<tr>
<td>TINJAUAN PUSTAKA</td>
<td>3</td>
</tr>
<tr>
<td>Habitat dan Klasifikasi Burung Unta</td>
<td>3</td>
</tr>
<tr>
<td>Morfologi Burung Unta</td>
<td>5</td>
</tr>
<tr>
<td>Fisiologi Saluran Pencernaan Burung Unta</td>
<td>7</td>
</tr>
<tr>
<td>Kemampuan Mencerna Serat Kasar</td>
<td>10</td>
</tr>
<tr>
<td>Kebutuhan Zat-zat Makanan Burung Unta</td>
<td>12</td>
</tr>
<tr>
<td>MATERI DAN METODE PENELITIAN</td>
<td>18</td>
</tr>
<tr>
<td>Materi Penelitian</td>
<td>18</td>
</tr>
<tr>
<td>Metode Penelitian</td>
<td>20</td>
</tr>
<tr>
<td>HASIL DAN PEMBAHASAN</td>
<td>22</td>
</tr>
<tr>
<td>Produksi Telur yang Ditetaskan</td>
<td>25</td>
</tr>
<tr>
<td>Berat Telur</td>
<td>26</td>
</tr>
<tr>
<td>Fertilitas</td>
<td>27</td>
</tr>
<tr>
<td>Daya Tetas</td>
<td>28</td>
</tr>
<tr>
<td>Berat Tetas</td>
<td>29</td>
</tr>
<tr>
<td>Berat Cangkang</td>
<td>29</td>
</tr>
<tr>
<td>KESIMPULAN DAN SARAN</td>
<td>31</td>
</tr>
<tr>
<td>Kesimpulan</td>
<td>31</td>
</tr>
<tr>
<td>Saran</td>
<td>31</td>
</tr>
<tr>
<td>DAFTAR PUSTAKA</td>
<td>32</td>
</tr>
<tr>
<td>LAMPIRAN</td>
<td>34</td>
</tr>
<tr>
<td>No.</td>
<td>Judul</td>
</tr>
<tr>
<td>-----</td>
<td>-------</td>
</tr>
<tr>
<td>1.</td>
<td>Perbandingan panjang usus dari beberapa bangsa burung</td>
</tr>
<tr>
<td>2.</td>
<td>Nilai energi metabolis semu (AME), kecernaan dinding sel dan kecernaan lemak pada burung unta dengan umur yang berbeda</td>
</tr>
<tr>
<td>3.</td>
<td>Contoh ransum kalkun ataupun burung unta</td>
</tr>
<tr>
<td>4.</td>
<td>Susunan ransum dan perkiraan analisis kandungan nutrisi ransum burung unta dari umur 1 hari sampai dewasa</td>
</tr>
<tr>
<td>5.</td>
<td>Spesifikasi ransum untuk burung unta</td>
</tr>
<tr>
<td>6.</td>
<td>Konsentrasi protein ransum, laju pertumbuhan dan konsumsi pakan anak burung unta umur 8-10 hari sampai 8 minggu</td>
</tr>
<tr>
<td>7.</td>
<td>Hasil analisis proksimat ransum burung unta</td>
</tr>
<tr>
<td>8.</td>
<td>Kondisi klimatologi selama penelitian</td>
</tr>
<tr>
<td>9.</td>
<td>Korelasi antara variabel produktivitas dan variabel lingkungan</td>
</tr>
<tr>
<td>10.</td>
<td>Korelasi antar variabel zat makanan</td>
</tr>
<tr>
<td>11.</td>
<td>Koefisien masing-masing zat makanan dalam analisis PCA</td>
</tr>
<tr>
<td>12.</td>
<td>Hasil analisis regresi berbagai variabel zat makanan terhadap produktivitas burung unta</td>
</tr>
<tr>
<td>13.</td>
<td>Korelasi faktor lingkungan dengan produksi telur yang ditetaskan</td>
</tr>
<tr>
<td>Lampiran</td>
<td>Halaman</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>1. Data produktivitas burung unta per periode penetasan pada tahun produksi I</td>
<td>34</td>
</tr>
<tr>
<td>2. Data produktivitas burung unta per periode penetasan pada tahun produksi II</td>
<td>36</td>
</tr>
<tr>
<td>3. Data produksi telur burung unta tahun I</td>
<td>38</td>
</tr>
<tr>
<td>4. Data produksi telur burung unta tahun II</td>
<td>50</td>
</tr>
<tr>
<td>5. Perhitungan analisis regresi peranan masing-masing zat makanan terhadap produktivitas burung unta</td>
<td>59</td>
</tr>
<tr>
<td>6. Analisis PCA komponen zat makanan dalam ransum burung unta</td>
<td>63</td>
</tr>
<tr>
<td>7. Perhitungan analisis regresi PCA komponen ransum terhadap produktivitas burung unta</td>
<td>64</td>
</tr>
</tbody>
</table>
PENDAHULUAN


Prospek menjanjikan burung unta menjadikan komoditi tersebut berkembang menjadi suatu industri yang lebih komplek. Tidak hanya peternakan yang menghasilkan produk saja tetapi juga berkembang peternakan penghasil bibit. Kondisi tersebut menuntut peternak untuk menghasilkan telur-telur yang mampu menurunkan bibit unggul.

Sebagai komoditi unggas yang masih baru, belum banyak dilakukan penelitian yang dilakukan untuk mengetahui kebutuhan zat-zat makanannya sehingga badan riset seperti NRC juga belum mempunyai data yang cukup untuk mengeluarkan rekomendasi. Saat ini rekomendasi kebutuhan zat-zat makanan masih merupakan hasil penelitian dari luar negeri yang setelah dikaji ternyata tidak terdapat satu pun rekomendasi yang sudah pasti. Hasil yang sangat
bervariasi tersebut akan membingungkan peternak untuk memilih ransum yang tepat dan belum tentu cocok jika diterapkan di Indonesia.

Penampilan fenotip suatu individu ditentukan oleh dua faktor dasar yaitu genetik dan lingkungan. Lingkungan yang berbeda memberikan kondisi yang berbeda pula dan hal ini juga berpengaruh pada ternak seperti burung unta. Meskipun burung unta mempunyai daya adaptasi yang baik, tetapi produksinya akan lebih optimal jika memperoleh zat nutrisi sesuai dengan lingkungannya. Arti penting semua itu adalah ternak burung unta Indonesia juga memerlukan rekomendasi khusus mengenai kebutuhan nutrisinya.

Penelitian ini bertujuan untuk menginventarisasi berbagai faktor yang dianggap mempengaruhi produktifitas burung unta. Dari informasi dasar tersebut diharapkan dapat diketahui faktor-faktor yang berperan pada tingkat produktifitas sehingga dapat digunakan untuk menyusun strategi yang lebih tepat pemeliharaan burung unta pembibit untuk daerah Indonesia atau daerah lain yang mempunyai kemiripan kondisi alam. Hasil penelitian ini diharapkan bermanfaat sebagai informasi dasar prediksi besarnya produktifitas burung unta untuk suatu susunan ransum yang diperkirakan berlaku dimasa mendatang.
TINJAUAN PUSTAKA

Habitat dan Klasifikasi Burung Unta


Burung unta digolongkan ke dalam ordo Struthioniformes dan termasuk spesies Struthio camelus. Dahulu, spesies ini memiliki 6 sub spesies, satu diantaranya telah punah sejak tahun 1914 yaitu Struthio camelus syriacus yang berasal dari gurun pasir Syria, dua sub spesies yang mempunyai banyak kemiripan digabungkan menjadi satu sehingga sekarang tinggal empat sub spesies (Ullrey
dan Allen, 1996). Untuk lebih jelasnya klasifikasi burung unta dapat dilihat sebagai berikut:

- **Phylum**: Chordata
- **Sub phylum**: Vertebrata
- **Class**: Aves
- **Ordo**: Struthioniformes
- **Famili**: Struthionidae
- **Genus**: Ratitae
- **Species**: Struthio camelus
- **Sub species**: - *Struthio camelus camelus*
  - *Struthio camelus massaicus*
  - *Struthio camelus molybdophanes*
  - *Struthio camelus australis*

*Struthio camelus camelus*

Subspesies asli Afrika utara yang sudah punah di tempat asalnya. Habitat dan populasi sudah jauh berkurang. Burung unta jantan mempunyai titik tanpa bulu di kepala. Ciri inilah yang dapat digunakan untuk membedakannya dengan ras massai

*Struthio camelus massaicus*

Burung unta ini berasal dari Kenya bagian timur dan Tanganika. Yang jantan mirip *S. camelus camelus*, tetapi ia tidak mempunyai titik tanpa bulu di kepala. Sedangkan betinanya tidak dapat dibedakan dengan betinanya sub spesies lainnya. Warna telurnya yang sangat khas, ungu tua, membedakannya dengan sub-spesies
lainnya, kecuali ras somalia. Ras ini sama-sama menghasilkan telur berwarna ungu tua.

*Struthio camelus molybdophanes*


*Struthio camelus australis*


Morfologi Burung Unta

Burung unta digolongkan dalam keluarga Ratite yang berarti burung yang tidak bisa terbang dan merupakan burung terbesar di dunia. Burung jantan umumnya mempunyai berat 100 - 130 kg dan yang betina umumnya mempunyai berat 90 - 110 kg (Ullrey dan Allen, 1996), sedangkan menurut Tuckwell (1997) berat burung unta dewasa kira-kira 105 sampai 150 kg pada burung unta liar dan
rata-rata 130 kg pada burung unta yang telah didomestikasi. Tinggi burung unta kira-kira 2,1 sampai 2,5 meter. Ukuran tinggi burung unta tersebut 90 cm diantaranya disumbangkan oleh leher dan 100 cm diantaranya disumbangkan oleh panjang kaki. Akibat ukuran tubuh yang terlalu besar dan ukuran sayap yang relatif kecil membuat ia tidak sanggup untuk terbang.

Burung unta mempunyai pertumbuhan badan yang cepat (dapat mencapai bobot badan 100 kg sebelum usia satu tahun) serta mampu hidup sampai usia 70 tahun dengan masa produksi sampai 40 tahun. Data yang didapat dari Allwright (1996) menunjukkan bobot badan burung unta pada umur 2, 4, 6, 10, dan 14 bulan berturut-turut adalah 24, 45, 65, 90, dan 110 kg. Diperkirakan seekor induk burung unta mampu memproduksi telur sampai 100 butir/tahun. Dari 100 butir tersebut diharapkan dapat dihasilkan sebanyak 25 ekor anak sampai dewasa.


Untuk membedakan jenis kelamin burung unta dewasa cukup mudah, jika paruh dan kakinya berwarna merah berarti jenis kelamin jantan, tetapi jika paruh dan kakinya berwarna hitam keabu-abuan berarti jenis kelamin betina. Warna bulu
burung jantan yang hitam lebih indah daripada warna bulu burung betinya yang abu-abu (Iswanto dan Raharjo, 1996).

Fisiologi Saluran Pencernaan Burung Unta

Sebelum kita hendak mengetahui kebutuhan pakan burung unta sebaiknya diketahui dulu fisiologi saluran pencernaan yang merupakan tempat terjadinya proses metabolisme zat makanan sebelum diserap dan digunakan oleh tubuh. Tidak seperti bangsa burung lainnya, burung unta tidak mempunyai tembolok yang digunakan sebagai tempat menimbun makanan yang dimakan, sebagai gantinya pada bagian pertama dari kerongkongan terdapat sesuatu seperti kantong dimana makanan mengumpul sampai burung mengangkat kepalanya untuk menelan. Bagian terakhir dari kantong melebar menjadi lambung kelenjar (proventrikulus) dilanjutkan dengan empedal.

Perbedaan lain yang dilaporkan oleh Shanawany (1996) bahwa area sekresi enzim pencernaan pada proventrikulus terbatas hanya 25 % luas permukaan. Tidak seperti bangsa burung lain yang seluruh permukaan proventrikulusnya dapat mensekresi enzim pencernaan. Hal ini kemungkinan berhubungan dengan morfologi alat pencernaan yang tidak mempunyai tembolok sehingga diperlukan proventrikulus yang sangat besar untuk menampung makanan dari tembolok. Angel (1996) melaporkan adanya konsentrasi yang tinggi dari volatile fatty acids (VFA) pada proventrikulus (158,8 mM) dan pada gizzard (139,3 mM) yang mengindikasikan bahwa terjadi fermentasi pada organ pencernaan bagian depan tetapi sumbangan energi dan protein yang nyata belum diidentifikasi lebih lanjut.

Pencernaan dan penyerapan zat makanan lebih banyak terjadi pada usus kecil. Usus kecil tersebut mempunyai proporsi sekitar 36% total panjang usus dari saluran pencernaan (Angel, 1996). Proporsi ini lebih pendek jika dibandingkan dengan Emu dan Rhea, yang satu keluarga dengan burung unta, serta ayam (Tabel 1). Usus besar pada burung unta menyumbang proporsi 57% dari panjang usus secara keseluruhan.

Tabel 1. Perbandingan panjang usus dari beberapa bangsa burung

<table>
<thead>
<tr>
<th></th>
<th>Burung unta</th>
<th></th>
<th>Emu</th>
<th></th>
<th>Rhea</th>
<th></th>
<th>Ayam</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>cm</td>
<td>%</td>
<td>cm</td>
<td>%</td>
<td>cm</td>
<td>%</td>
<td>cm</td>
<td>%</td>
</tr>
<tr>
<td>Usus kecil</td>
<td>512</td>
<td>36</td>
<td>351</td>
<td>90</td>
<td>140</td>
<td>61</td>
<td>61</td>
<td>90</td>
</tr>
<tr>
<td>Sekum</td>
<td>94</td>
<td>6</td>
<td>7</td>
<td>2</td>
<td>48</td>
<td>21</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Kolon</td>
<td>800</td>
<td>57</td>
<td>28</td>
<td>7</td>
<td>40</td>
<td>17</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Sumber : Angel (1996)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tidak seperti umumnya unggas lain, burung unta dikenal mampu mencerna serat kasar sampai 58%. Dari tabel di atas terlihat bahwa organ pencernaan fermentatif (kolon) burung unta proporsinya hampir 20 kali lipat dibanding ayam, artinya kemampuan mencerna/memfermentasi makanan berserat juga lebih tinggi. Oleh karena itu burung unta dapat diberi bahan pakan yang mengandung serat
kasar tinggi seperti: rumput, dedaunan, bungkil-bungkilan serta limbah hasil pertanian dan industri. Kemampuan burung unta mencerna serat kasar semakin tinggi dengan bertambahnya umur. Dari menetas sampai umur 2 bulan hanya dapat mencerna serat kasar sekitar 6-15 %. Pencernaan ini meningkat setelah umur 4 bulan yaitu mencapai 58 % dan pada burung dewasa dapat mencapai 61,6 % (Tabel 2). Dengan demikian tidak lebih dari 5 % serat kasar merupakan pakan utama dalam minggu-minggu pertama hidupnya.

Tabel 2. Nilai energi metabolis semu (AME), keceraan dinding sel dan lemak pada burung unta dengan umur yang berbeda

<table>
<thead>
<tr>
<th>Umur</th>
<th>AME (kcal kg⁻¹)</th>
<th>Kecernaan NDF (%)</th>
<th>Kecernaan lemak (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 minggu</td>
<td>1731</td>
<td>6.5</td>
<td>44.1</td>
</tr>
<tr>
<td>6 minggu</td>
<td>2337</td>
<td>27.9</td>
<td>74.3</td>
</tr>
<tr>
<td>10 minggu</td>
<td>2684</td>
<td>51.2</td>
<td>85.7</td>
</tr>
<tr>
<td>17 minggu</td>
<td>2739</td>
<td>58.0</td>
<td>91.1</td>
</tr>
<tr>
<td>30 bulan</td>
<td>2801</td>
<td>61.6</td>
<td>92.9</td>
</tr>
<tr>
<td>Simpangan baku</td>
<td>75</td>
<td>4.5</td>
<td>3.7</td>
</tr>
</tbody>
</table>

Sumber: Angel (1996)

Sekar sebagai pembatas antara usus dan kolon mempunyai panjang antara 95-125 cm (termasuk panjang dibanding bangsa burung yang lain), sedangkan kolon mempunyai ukuran yang sangat panjang (sampai dengan 16 m). Kolon dibagi menjadi dua bagian, yang pertama, bagian yang tebal, berfungsi mengabsorbsi zat makanan sementara bagian yang kedua, tipis, berguna untuk mengeringkan sisa pencernaan sehingga terbentuk feses yang menyerupai pelet. Seka dan kolon secara bersama-sama disebut usus besar (usus belakang).

Makanan Burung Uta


Makanan yang dipatuknya ditumpuk di kerongkongan sebelum ditelan melalui leher dan masuk ke dalam usus. Burung unta meminum air bila ditemukan, namun ia dapat bertahan hidup untuk jangka waktu yang relatif lama tanpa minum asalkan makanannya tumbuhan muda dan cukup mengandung air. Ol' h karena itu, pada musim kering, keberadaan makanan penyimpan air sangat membantu burung unta dalam mensuplai air (Adi, 1996). Burung unta mencari makan dengan jalan menurunkan leher dan paruhnya diantara vegetasi yang tumbuh di savana atau daerah semi gurun pasir.

Setelah tidak berada di habitat aslinya, burung unta atau yang sering juga disebut burung bodoh ini akan lebih rakus lagi. Ia mau makan apa saja yang ditemukannya. Sebagai gambaran, di kebun binatang London disebutkan bahwa burung unta pernah menelan beberapa benda yang tidak lazim untuk dimakan, seperti sarung tangan, sapu tangan, kancing baju, pensil, beberapa koin, sepasang kalung emas dan jam tangan.

Makanan yang baik adalah esensial untuk keberhasilan produksi burung unta. Karena anak burung unta bertumbuh sangat cepat, maka harus memperoleh makanan dari ransum yang kaya akan protein dan mengandung cukup asam-asam amino esensial disertai energi yang cukup, mineral-mineral dan vitamin-vitamin. Makanan untuk burung unta pembibit akan mempengaruhi produksi telur dan daya tetas telur.
Kebutuhan Zat Makanan Burung Unta


Tabel 3. Contoh ransum kalkun ataupun burung unta

<table>
<thead>
<tr>
<th>Unsur makanan</th>
<th>Pemula 0-8 minggu</th>
<th>Bertumbuh 8-16 minggu</th>
<th>Pengakhiran 16-dipasarkan</th>
<th>Bibit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME kkal</td>
<td>2.908</td>
<td>3.016</td>
<td>3.167</td>
<td>2.840</td>
</tr>
<tr>
<td>Protein %</td>
<td>27,31</td>
<td>21,09</td>
<td>16,22</td>
<td>17,01</td>
</tr>
<tr>
<td>Lisin %</td>
<td>1,60</td>
<td>1,10</td>
<td>0,75</td>
<td>0,87</td>
</tr>
<tr>
<td>Metionin %</td>
<td>0,48</td>
<td>0,33</td>
<td>0,27</td>
<td>0,32</td>
</tr>
<tr>
<td>Metionin + sistin %</td>
<td>0,88</td>
<td>0,85</td>
<td>0,53</td>
<td>0,57</td>
</tr>
<tr>
<td>Lemak %</td>
<td>5,31</td>
<td>5,43</td>
<td>5,84</td>
<td>4,88</td>
</tr>
<tr>
<td>Serat Kasar %</td>
<td>2,60</td>
<td>2,47</td>
<td>2,28</td>
<td>3,25</td>
</tr>
<tr>
<td>Kalsium %</td>
<td>1,17</td>
<td>1,00</td>
<td>0,93</td>
<td>2,28</td>
</tr>
<tr>
<td>Total fosfor %</td>
<td>0,91</td>
<td>0,80</td>
<td>0,69</td>
<td>0,70</td>
</tr>
<tr>
<td>Forfor tersedia %</td>
<td>0,65</td>
<td>0,55</td>
<td>0,46</td>
<td>0,61</td>
</tr>
<tr>
<td>Vitamin D IU</td>
<td>1.670</td>
<td>1.870</td>
<td>1.870</td>
<td>1.870</td>
</tr>
<tr>
<td>Kolin mg</td>
<td>2.200</td>
<td>1.540</td>
<td>1.320</td>
<td>1.430</td>
</tr>
<tr>
<td>Niasin mg</td>
<td>79,1</td>
<td>75,9</td>
<td>74,4</td>
<td>92,6</td>
</tr>
<tr>
<td>Asam pantotenat mg</td>
<td>13,4</td>
<td>12,3</td>
<td>12,4</td>
<td>17,6</td>
</tr>
<tr>
<td>Riboflavin mg</td>
<td>7</td>
<td>7,6</td>
<td>7,4</td>
<td>8</td>
</tr>
</tbody>
</table>

Sumber: Ensminger et al. (1990)

Pada burung unta yang telah didomestikasi dan ditemakkan untuk tujuan komersial, informasi spesifik mengenai kebutuhan pakan harian ternak tersebut sangat terbatas. Tidak seperti bangsa burung yang lain seperti ayam dan kalkun
yang kebutuhan akan energi, protein, vitamin dan mineral telah banyak diketahui.

Namun demikian, menurut Ensminger et al. (1990) kebutuhan zat makanan burung unta dan kalkun diduga sangat mirip. Dengan demikian susunan ransum kalkun dapat dipakai untuk burung unta (Tabel 3), namun karena anak burung unta bertumbuh sangat cepat, dianjurkan pemberian makanan berprotei tinggi lebih lama dari kalkun, yang hanya 8 minggu pada kalkun.

Dalam perkembangannya, pengetahuan mengenai kebutuhan zat nutrisi burung unta terus diupayakan sehingga bila pada rekomendasi Ensminger, et.al. (1990) ransum kalkun masih dipakai untuk menduga ransum burung unta, maka pada Tabel 4 dan 5 sudah mulai ditentukan ransum spesifik untuk burung unta.

<table>
<thead>
<tr>
<th>Komposisi (g/kg)</th>
<th>0-2 bulan</th>
<th>2-4 bulan</th>
<th>4-6 bulan</th>
<th>6-10 bulan</th>
<th>10-14 bulan</th>
<th>&gt;14 bulan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre-starter</td>
<td>Starter</td>
<td>Grower</td>
<td>Finisher</td>
<td>Post finisher</td>
<td>Maintenance</td>
</tr>
<tr>
<td>Alfalfa hay</td>
<td>22.7</td>
<td>260.0</td>
<td>428.0</td>
<td>812.0</td>
<td>884.6</td>
<td>420.0</td>
</tr>
<tr>
<td>Jagung kuning</td>
<td>557.0</td>
<td>501.3</td>
<td>463.5</td>
<td>172.7</td>
<td>100.0</td>
<td>0</td>
</tr>
<tr>
<td>Minyak jagung</td>
<td>20.0</td>
<td>20.0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Tp. bk. kedelai</td>
<td>232.0</td>
<td>86.0</td>
<td>30.0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Tp. ikan</td>
<td>120.0</td>
<td>106.0</td>
<td>59.0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Ca₃PO₄</td>
<td>5.3</td>
<td>7.2</td>
<td>11.0</td>
<td>11.0</td>
<td>11.2</td>
<td>15.0</td>
</tr>
<tr>
<td>Limestone</td>
<td>17.0</td>
<td>12.3</td>
<td>3.0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Metionin</td>
<td>1.0</td>
<td>2.2</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
</tr>
<tr>
<td>Vitamin/ mineral premix</td>
<td>0.5</td>
<td>0.5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sengbasistrasin</td>
<td>0.5</td>
<td>0.5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Jerami lucerne</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>552.0</td>
</tr>
<tr>
<td>Kandungan nutrien</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AME (kcal/kg)</td>
<td>3000</td>
<td>2750</td>
<td>2500</td>
<td>2200</td>
<td>2000</td>
<td>1700</td>
</tr>
<tr>
<td>Protein (g/kg)</td>
<td>230.0</td>
<td>190.0</td>
<td>155.0</td>
<td>140.0</td>
<td>120.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Arginine</td>
<td>12.0</td>
<td>9.5</td>
<td>7.0</td>
<td>5.5</td>
<td>4.5</td>
<td>3.2</td>
</tr>
<tr>
<td>Lisin</td>
<td>12.8</td>
<td>11.0</td>
<td>7.8</td>
<td>5.8</td>
<td>4.5</td>
<td>3.0</td>
</tr>
<tr>
<td>Metionin</td>
<td>5.0</td>
<td>4.5</td>
<td>3.5</td>
<td>3.0</td>
<td>2.5</td>
<td>1.1</td>
</tr>
<tr>
<td>Met - Sys</td>
<td>9.0</td>
<td>7.0</td>
<td>5.5</td>
<td>4.5</td>
<td>3.5</td>
<td>1.6</td>
</tr>
<tr>
<td>Treonin</td>
<td>7.5</td>
<td>6.0</td>
<td>4.2</td>
<td>3.1</td>
<td>2.3</td>
<td>1.7</td>
</tr>
<tr>
<td>Kalsium</td>
<td>14.0</td>
<td>14.0</td>
<td>12.0</td>
<td>12.0</td>
<td>10.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Fosfor tersedia</td>
<td>4.3</td>
<td>4.3</td>
<td>3.8</td>
<td>3.8</td>
<td>3.5</td>
<td>3.2</td>
</tr>
</tbody>
</table>

Sumber: Cillier et al. (1995)

Tabel 5. Spesifikasi ransum untuk burung unta

<table>
<thead>
<tr>
<th>Zat makanan</th>
<th>Starter (0-8 minggu)</th>
<th>Breeder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein kasar (%)</td>
<td>18.0</td>
<td>15.0</td>
</tr>
<tr>
<td>Energi metabolis (kcal/kg)</td>
<td>2750</td>
<td>2650</td>
</tr>
<tr>
<td>Metionin (%)</td>
<td>0.36</td>
<td>0.30</td>
</tr>
<tr>
<td>Metionin + sintin (%)</td>
<td>0.70</td>
<td>0.62</td>
</tr>
<tr>
<td>Lisin (%)</td>
<td>0.90</td>
<td>0.72</td>
</tr>
<tr>
<td>Kalium (%)</td>
<td>1.40</td>
<td>1.80</td>
</tr>
<tr>
<td>Fosfor tersedia (%)</td>
<td>0.70</td>
<td>0.45</td>
</tr>
<tr>
<td>Natrium (%)</td>
<td>0.18</td>
<td>0.17</td>
</tr>
</tbody>
</table>

1 = ditambah sembarang hijauan sehingga level energi turun sampai ± 2300 kcal/kg

Pembatasan pakan diperlukan pada burung unta yang dipelihara untuk produksi daging atau untuk pembibitan. Pertumbuhan anak harus dikontrol untuk menghindari resiko yang diakibatkan oleh pertumbuhan yang terlalu cepat seperti gangguan kaki. Jika anak burung unta diibarkan tumbuh dengan cepat, resiko yang paling besar adalah kaki yang abnormal. Tabel 6 dapat dipakai sebagai acuan bagaimana pertumbuhan yang terlalu cepat mengakibatkan abnormalitas kaki.

Pada Tabel 6 terlihat bahwa kejadian abnormalitas kaki meningkat dengan meningkatnya konsentrasai protein dalam ransum dan konsumsi pakan. Protein yang tinggi memberikan pertambahan bobot badan yang terbesar, dengan pertumbuhan tulang kaki relatif sama dengan ransum lain menyebabkan kaki harus menanggung beban bobot badan yang terlalu berat. Perbaikan manajemen
pemberian pakan, seperti pembatasan kualitas dan kuantitas ransum pada burung unta muda, dapat mengurangi resiko abnormalitas kaki.

Tabel 6. Konsentrasi protein ransum, laju pertumbuhan, dan konsumsi pakan anak burung unta umur 8-10 hari sampai 8 minggu.

<table>
<thead>
<tr>
<th>Konsentrasi protein ransum (g kg⁻¹)</th>
<th>140</th>
<th>160</th>
<th>180</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jumlah ulangan</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Bobot badan awal (g)</td>
<td>912</td>
<td>960</td>
<td>826</td>
<td>876</td>
</tr>
<tr>
<td>Bobot badan akhir (g)</td>
<td>6350</td>
<td>9400</td>
<td>95800</td>
<td>10010</td>
</tr>
<tr>
<td>Laju pertumbuhan badan, 8 minggu (g)</td>
<td>5438</td>
<td>8440</td>
<td>8754</td>
<td>9134</td>
</tr>
<tr>
<td>Konsumsi pakan, 8 minggu (g)</td>
<td>11912</td>
<td>14563</td>
<td>14468</td>
<td>15453</td>
</tr>
<tr>
<td>Burung dengan kaki abnormal</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

Sumber: Ullfrey dan Allen (1996)

Kebutuhan zat makanan yang telah disajikan di atas tampaknya terlalu kaku, dengan hanya berpatokan pada satu nilai. Oleh karena itu Tuckwell (1997) mencoba merekomendasikan kisaran kebutuhan zat makanan burung unta sebagai berikut:

- Anak burung unta umur 0 sampai 4 bulan seyogyanya diberi level protein yang tinggi. Nilai rekomendasi yang diberikan adalah 16 sampai 18% protein. Kandungan energi berkisar 8,8 sampai 13,5 MJ/kg sehingga rata-rata rekomendasi sekitar 10,5 MJ/kg ransum. Level serat kasar seyogyanya 4%. Selama 3 minggu pertama, anak burung unta harus diberikan cahaya secara kontinyu selama sekitar 12 jam perhari. Ransum harus disuplementasi dengan alat ia cacak atau tepung, dan grit dari kulit telur atau batu untuk melatih dan meningkatkan fungsi saluran pencernaan. Untuk mencegah bobot badan yang berlebihan dan ketidaknormalan kaki, setelah 3 minggu konsumsi protein harus dibatasi.
• Burung unta masa pertumbuhan (4 sampai 12 bulan) diberikan ransum yang berbeda dengan anak burung unta. Kandungan energi harus ditingkatkan menjadi sekitar 10 sampai 10,5 MJ/kg ransum (kisaran yang direkomendasikan adalah 8 sampai 12,1 MJ/kg ransum). Rasio protein kasar diturunkan menjadi 16 sampai 20 % (kisaran rekomendasi antara 16 sampai 24%). Konsumsi serat kasar ditingkatkan menjadi 10 sampai 11%. Rasio kalsium dan fosfor tersedia sebaiknya 1:1.

• Umumnya bahwa burung unta usia mulai 12 bulan sampai dewasa memerlukan serat kasar yang tinggi (12 sampai 15%). Level energi harus diturunkan menjadi 10 MJ/kg ransum untuk meminimalkan resiko kegemukan (kisaran yang diperbolehkan antara 8,0 sampai 12 MJ/kg ransum). Protein kasar pakan diturunkan sampai 12 % dengan kisaran yang masih diperbolehkan antara 10 sampai 20%.

MATERI DAN METODE PENELITIAN

Materi Penelitian

Penelitian ini menggunakan data produktifitas burung unta yang berasal dari peternakan burung unta pembibit; PT. Ostricharta Lestari yang terletak di Desa Situsari, Kecamatan Cileunsi, Kabupaten daerah tingkat II Bogor mulai bulan Maret 1997 sampai Januari 1999. Variabel produktifitas yang diambil yaitu: produksi telur yang ditetaskan (PTL), berat telur (BTL), fertilitas (FTS), daya tetas (DTS), berat tetas (BTS) dan berat cangkang (BCG). Pengukuran berbagai variabel produktifitas tersebut diterangkan sebagai berikut,

1. Produksi telur yang ditetaskan diketahui dengan menghitung jumlah telur yang dimasukkan ke dalam inkubator per periode penetasan.

2. Berat telur diperoleh dengan menimbang telur yang baru diambil dari sarang-sarang telur burung unta dan dinyatakan dalam gram.

3. Fertilitas (%) didapatkan dengan membagi jumlah telur yang dimasukkan ke dalam inkubator dengan jumlah telur yang memperlihatkan adanya perkembangan embrio, yang dapat dilihat dengan meng-candling telur pada hari ke-14, dikalikan 100 persen.

4. Daya tetas (%) didapatkan dengan membagi jumlah telur yang menetas dengan banyaknya telur yang fertil, dikalikan 100 persen.

5. Berat tetas didapat dengan menimbang anak burung unta sesaat setelah menetas dan dinyatakan dalam gram.

6. Berat cangkang diketahui dengan mengurangi berat telur dengan penjumlahan dari berat tetas dan egg weight loss (berkurangnya berat telur selama proses
penetasan karena terjadinya proses penguapan kadar air telur melewati pori-pori kulit telur)

Data hasil analisis proksimat ransum yang digunakan diperoleh dari Laboratorium Makanan Ternak Fakultas Peternakan IPB. Komposisi zat makanan ransum terdiri dari abu, protein kasar (PK), serat kasar (SK), lemak kasar (LK), bahan ekstrak tanpa nitrogen (BETN), kalsium (Ca), fosfor (P) dan energi bruto (EB), seperti tampak pada Tabel 7.

Tabel 7. Hasil analisis proksimat ransum burung unta

<table>
<thead>
<tr>
<th></th>
<th>Abu (%)</th>
<th>PK (%)</th>
<th>SK (%)</th>
<th>LK (%)</th>
<th>BETN (%)</th>
<th>Ca (%)</th>
<th>P (%)</th>
<th>EB (k.kal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ransum 1</td>
<td>9.29</td>
<td>14.8</td>
<td>8.96</td>
<td>3.24</td>
<td>51.48</td>
<td>1.68</td>
<td>1.01</td>
<td>3332</td>
</tr>
<tr>
<td>Ransum 2</td>
<td>11.10</td>
<td>17.4</td>
<td>5.27</td>
<td>6.56</td>
<td>46.38</td>
<td>3.42</td>
<td>0.99</td>
<td>3711</td>
</tr>
<tr>
<td>Ransum 3</td>
<td>13.34</td>
<td>17.4</td>
<td>6.60</td>
<td>5.46</td>
<td>47.64</td>
<td>3.42</td>
<td>1.25</td>
<td>3891</td>
</tr>
<tr>
<td>Ransum 4</td>
<td>5.54</td>
<td>19.0</td>
<td>3.01</td>
<td>4.73</td>
<td>60.56</td>
<td>1.11</td>
<td>0.84</td>
<td>4442</td>
</tr>
<tr>
<td>Ransum 5</td>
<td>10.19</td>
<td>18.1</td>
<td>7.97</td>
<td>-</td>
<td>-</td>
<td>1.17</td>
<td>1.20</td>
<td>4677</td>
</tr>
<tr>
<td>Rataan</td>
<td>9.34</td>
<td>17.5</td>
<td>5.68</td>
<td>4.71</td>
<td>53.56</td>
<td>2.13</td>
<td>1.02</td>
<td>3983</td>
</tr>
</tbody>
</table>

Data pendukung cuaca diperoleh dari Stasiun Klimatologi Unit Pendidikan dan Pelatihan Peternakan Jonggol (UP3J), Fakultas Peternakan IPB. Kondisi klimat yang diambil rataan tiap bulannya meliputi: temperatur, kelembaban, curah hujan dan kecepatan angin (Tabel 8).

Tabel 8. Kondisi klimatologi selama penelitian

<table>
<thead>
<tr>
<th>No.</th>
<th>Bulan</th>
<th>Curah Hujan (mm)</th>
<th>Suhu Max. (°C)</th>
<th>Kelembaban (%)</th>
<th>Kec. Angin (km/jam)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Maret’97</td>
<td>264,5</td>
<td>26,7</td>
<td>84,5</td>
<td>2,5</td>
</tr>
<tr>
<td>2.</td>
<td>April’97</td>
<td>345,5</td>
<td>26,7</td>
<td>86,64</td>
<td>1,66</td>
</tr>
<tr>
<td>3.</td>
<td>Mei’97</td>
<td>239,5</td>
<td>27,2</td>
<td>86,55</td>
<td>1,88</td>
</tr>
<tr>
<td>4.</td>
<td>Juni’97</td>
<td>8</td>
<td>26,8</td>
<td>82,35</td>
<td>1,97</td>
</tr>
<tr>
<td>5.</td>
<td>Juli’97</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6.</td>
<td>Agustus’97</td>
<td>104</td>
<td>26,9</td>
<td>74,4</td>
<td>2,31</td>
</tr>
<tr>
<td>7.</td>
<td>September’97</td>
<td>12</td>
<td>27,6</td>
<td>74</td>
<td>3,119</td>
</tr>
<tr>
<td>8.</td>
<td>Oktober’97</td>
<td>10</td>
<td>29,5</td>
<td>73,58</td>
<td>12,11</td>
</tr>
<tr>
<td>9.</td>
<td>November’97</td>
<td>219</td>
<td>28,7</td>
<td>75</td>
<td>1,134</td>
</tr>
<tr>
<td>No.</td>
<td>Bulan</td>
<td>Curah Hujan (mm)</td>
<td>Suhu Max. ('C)</td>
<td>Kelembaban (%)</td>
<td>Kec. Angin (km/jam)</td>
</tr>
<tr>
<td>-----</td>
<td>-----------</td>
<td>------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>10</td>
<td>Desember'97</td>
<td>264,5</td>
<td>27,8</td>
<td>75,95</td>
<td>3,011</td>
</tr>
<tr>
<td>11</td>
<td>Januari'98</td>
<td>302,5</td>
<td>27,5</td>
<td>77</td>
<td>2,77</td>
</tr>
<tr>
<td>12</td>
<td>Februari'98</td>
<td>548</td>
<td>27,4</td>
<td>78</td>
<td>2,13</td>
</tr>
<tr>
<td>13</td>
<td>Maret'98</td>
<td>667</td>
<td>27,3</td>
<td>78,35</td>
<td>1,89</td>
</tr>
<tr>
<td>14</td>
<td>April'98</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>Mei'98</td>
<td>234,5</td>
<td>28</td>
<td>78,2</td>
<td>2,061</td>
</tr>
<tr>
<td>16</td>
<td>Juni'98</td>
<td>317,5</td>
<td>27,2</td>
<td>79</td>
<td>1,741</td>
</tr>
<tr>
<td>17</td>
<td>Juli'98</td>
<td>287,5</td>
<td>26,2</td>
<td>78,66</td>
<td>1,68</td>
</tr>
<tr>
<td>18</td>
<td>Agustus'98</td>
<td>88,5</td>
<td>27,4</td>
<td>77,40</td>
<td>2,03</td>
</tr>
<tr>
<td>19</td>
<td>September'98</td>
<td>190,75</td>
<td>27,9</td>
<td>76,54</td>
<td>1,89</td>
</tr>
<tr>
<td>20</td>
<td>Oktober'98</td>
<td>570,75</td>
<td>27,1</td>
<td>78,69</td>
<td>1,88</td>
</tr>
<tr>
<td>21</td>
<td>November'98</td>
<td>112,5</td>
<td>27,4</td>
<td>76,82</td>
<td>3,10</td>
</tr>
<tr>
<td>22</td>
<td>Desember'98</td>
<td>115</td>
<td>26,4</td>
<td>74,87</td>
<td>3,96</td>
</tr>
<tr>
<td>23</td>
<td>Januari'99</td>
<td>292,5</td>
<td>26,7</td>
<td>77,91</td>
<td>4,2</td>
</tr>
</tbody>
</table>

Metode Penelitian

Data-data komposisi ransum dan produktivitas dilihat keeratan hubungannya dengan analisis korelasi (Steel dan Torrie, 1980). Nilai koefisien korelasi (\( \Gamma \)) antar peubah-peubah berpasangan \((x_1, y_1), \ldots, (x_n, y_n)\) yang menunjukkan keeratan hubungan kedua peubah tersebut dapat dihitung sbb:

\[
\Gamma_{ij} = \frac{\sum(x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum(x_i - \bar{x})^2 \sum(y_i - \bar{y})^2}}
\]

Untuk menjelaskan tingkah laku peubah tidak bebas (produksi telur, berat telur, fertilitas, daya tetas, berat tetas, berat cangkang) sebagai fungsi dari peubah bebas (protein kasar, abu, serat kasar, lemak kasar, BETN, Ca, P, energi) digunakan model regresi linier berganda. Rumus umum regresi dapat dituliskan sebagai berikut:
Y = b_0 + b_1X_1 + b_2X_2 + ... + b_nX_n + \epsilon

dimana Y = peubah tidak bebas
B_{0,1,...,n} = koefisien regresi ke 0, 1, ..., n
X_{1,2,...,n} = peubah tidak bebas ke 1, 2, ..., n

Upaya untuk menyederhanakan berbagai variabel bebas ke dalam peubah-peubah yang lebih sederhana, digunakan suatu pendekatan analisis statistik multivariabel yang didasarkan pada analisis komponen utama (Principal Component Analysis/PCA) menurut Lebart et al. (1984), dan dilanjutkan dengan mencari model regresi terhadap hasil analisis komponen utama.

Pengolahan data dilakukan dengan menggunakan komputer dan program yang dipakai untuk menganalisis data adalah minitab dan SAS.
HASIL DAN PEMBAHASAN

Hasil analisis korelasi antara variabel-variabel zat makanan seperti kadar abu, protein kasar (PK), serat kasar (SK), lemak kasar (LK), kalsium (Ca), fosfor (P), bahan ekstrak tanpa nitrogen (BETN), energi; dan variabel-variabel produktivitas burung unta seperti produksi telur yang ditetaskan (PTL), berat telur (BTL), fertilitas (FT), daya tetas (DTS), berat tetas (BTS), berat cangkang (BCG); maupun korelasi antar variabel zat makanan dapat dilihat pada Tabel 9 dan Tabel 10 berikut ini.

Tabel 9. Korelasi antara variabel produktivitas dan variabel zat makanan

<table>
<thead>
<tr>
<th></th>
<th>ABU</th>
<th>PK</th>
<th>SK</th>
<th>Ca</th>
<th>P</th>
<th>Energi</th>
<th>LK</th>
<th>BETN</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTL</td>
<td>-0.32352</td>
<td>0.11248</td>
<td>-0.19809</td>
<td>-0.30964</td>
<td>-0.34055</td>
<td>0.14649</td>
<td>-0.12183</td>
<td>0.29445</td>
</tr>
<tr>
<td>BTL</td>
<td>0.76788</td>
<td>-0.32728</td>
<td>0.50264</td>
<td>0.75040</td>
<td>0.76433</td>
<td>-0.42746</td>
<td>0.31855</td>
<td>-0.74491</td>
</tr>
<tr>
<td>FT</td>
<td>0.54626</td>
<td>0.08302</td>
<td>0.09804</td>
<td>0.60611</td>
<td>0.56624</td>
<td>-0.01550</td>
<td>0.52465</td>
<td>-0.45884</td>
</tr>
<tr>
<td>DTS</td>
<td>0.57351</td>
<td>-0.14786</td>
<td>0.30302</td>
<td>0.57278</td>
<td>0.59174</td>
<td>-0.22889</td>
<td>0.30466</td>
<td>-0.32353</td>
</tr>
<tr>
<td>BTS</td>
<td>0.54407</td>
<td>-0.36728</td>
<td>0.47704</td>
<td>0.49755</td>
<td>0.53108</td>
<td>-0.43140</td>
<td>0.10982</td>
<td>-0.56117</td>
</tr>
<tr>
<td>BCG</td>
<td>-0.12864</td>
<td>0.00361</td>
<td>-0.04209</td>
<td>-0.14021</td>
<td>-0.12689</td>
<td>0.02903</td>
<td>-0.11520</td>
<td>0.11975</td>
</tr>
</tbody>
</table>

Tabel 10. Korelasi antar variabel zat makanan

<table>
<thead>
<tr>
<th></th>
<th>ABU</th>
<th>PK</th>
<th>SK</th>
<th>Ca</th>
<th>P</th>
<th>Energi</th>
<th>LK</th>
<th>BETN</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABU</td>
<td>1.00000</td>
<td>-0.44066</td>
<td>0.66508</td>
<td>0.97242</td>
<td>0.99331</td>
<td>-0.50951</td>
<td>0.39189</td>
<td>-0.97466</td>
</tr>
<tr>
<td>PK</td>
<td>-0.44066</td>
<td>1.00000</td>
<td>-0.96209</td>
<td>0.48212</td>
<td>0.62093</td>
<td>-0.98605</td>
<td>-0.41581</td>
<td>-0.79233</td>
</tr>
<tr>
<td>SK</td>
<td>0.66508</td>
<td>-0.96209</td>
<td>1.00000</td>
<td>0.48212</td>
<td>0.62093</td>
<td>-0.98605</td>
<td>-0.41581</td>
<td>-0.79233</td>
</tr>
<tr>
<td>Ca</td>
<td>0.97242</td>
<td>0.48212</td>
<td>0.62093</td>
<td>1.00000</td>
<td>0.96082</td>
<td>-0.38367</td>
<td>0.59255</td>
<td>-0.91386</td>
</tr>
<tr>
<td>P</td>
<td>0.99331</td>
<td>0.62093</td>
<td>0.62093</td>
<td>0.96082</td>
<td>1.00000</td>
<td>-0.51019</td>
<td>0.41930</td>
<td>-0.94629</td>
</tr>
<tr>
<td>Energi</td>
<td>-0.50951</td>
<td>-0.98605</td>
<td>-0.98605</td>
<td>-0.38367</td>
<td>-0.51019</td>
<td>1.00000</td>
<td>0.49425</td>
<td>0.72555</td>
</tr>
<tr>
<td>LK</td>
<td>0.39189</td>
<td>-0.41581</td>
<td>-0.41581</td>
<td>0.59255</td>
<td>0.49425</td>
<td>1.00000</td>
<td>0.22752</td>
<td>-0.97466</td>
</tr>
<tr>
<td>BETN</td>
<td>-0.97466</td>
<td>0.60881</td>
<td>-0.79233</td>
<td>-0.91386</td>
<td>-0.94629</td>
<td>0.22752</td>
<td>1.00000</td>
<td>-0.22752</td>
</tr>
</tbody>
</table>

Hasil analisis korelasi di atas menunjukkan bahwa dari berbagai variabel produktivitas yang diamati tidak menunjukkan adanya korelasi yang sangat kuat dengan salah satu variabel bebas, kecuali pada variabel berat telur yang mempunyai hubungan cukup kuat dengan kadar abu (0,76788), kalsium (0,75054), fosfor (0,76433) dan BETN (-0,74491). Untuk variabel produktivitas...
lainnya, masing-masing zat makanan mempunyai proporsi yang hampir seimbang dan tidak terdapat peranan zat makanan yang dominan. Hal ini menjelaskan bahwa produktivitas tidak dapat dipengaruhi hanya oleh salah satu zat makanan tertentu.

Peranan zat makanan yang menonjol coba dicari dengan regresi dan hasil yang didapat mempunyai R² kecil seperti terlihat di bawah ini.

PTL  = 25,80 – 13,71 P (R² = 11,60%)
BTL  = 112,05 + 24,81 abu (R² = 58,96%)
FTS  = -129,64 + 25,03 Ca + 2,35 BETN (R² = 42,63%)
DTS  = -253,13 + 186,07 P + 2,19 BETN (R² = 36,31%)
BTS  = 1346,48 – 9,65 BETN (R² = 31,49%)
BCG  = tidak ditemukan model yang sesuai sampai taraf signifikan 15%.

Keefisienan susunan ransum yang digunakan atau pengaruh zat makanan tertentu terhadap fluktuasi produktivitas yang diharapkan, ditelusuri melalui analisis regresi terhadap komponen utama (selanjutnya disebut PCA). Hasil koefisien masing-masing zat makanan dalam analisis PCA tampak pada Tabel 11 di bawah ini.

| Tabel 11. Koefisien masing-masing zat makanan dalam analisis PCA |
|---------------|----------------|----------------|
|               | PCA1 | PCA2 | PCA3 |
| Proporsi      | 0,66966 | 0,32226 | 0,00807 |
| Kumulatif     | 0,66966 | 0,99193 | 1,00000 |
| Abu           | 0,40361 | 0,21973 | 0,20715 |
| PK            | -0,31597 | 0,42366 | 0,19153 |
| SK            | 0,38268 | -0,28874 | 0,08846 |
| Ca            | 0,36018 | 0,34367 | -0,08335 |
| P             | 0,39086 | 0,24703 | 0,61211 |
| Energi        | -0,35651 | 0,34587 | 0,40638 |
| LK            | 0,02329 | 0,61581 | -0,54827 |
| BETN          | -0,42502 | -0,10421 | 0,25532 |
PCA merupakan teknik untuk mereduksi variabel yang komplek menjadi sederhana sehingga memudahkan identifikasi. Hasil dari analisis regresi PCA terhadap berbagai variabel produktifitas disajikan sebagai berikut.

\[ \text{PTL} = 11,66 - 0,90 \text{PCA1} - 5,00 \text{PCA3} \quad (R^2 = 27,8\%) \]

\[ \text{BTL} = 1353 + 13,05 \text{PCA1} + 19,79 \text{PCA2} \quad (R^2 = 94,9\%) \]

\[ \text{FTS} = 49,56 + 3,68 \text{PCA1} + 7,53 \text{PCA2} \quad (R^2 = 88,3\%) \]

\[ \text{DTS} = 55,95 + 7,68 \text{PCA1} + 6,86 \text{PCA2} + 24,44 \text{PCA3} \quad (R^2 = 36,3\%) \]

\[ \text{BTS} = 830,59 + 25,00 \text{PCA1} \quad (R^2 = 99,5\%) \]

BCG = tidak ditemukan model yang sesuai sampai taraf signifikan 15%.

Setelah regresi dalam bentuk variabel PCA dikonversikan ke dalam variabel zat makanan diperoleh hasil seperti yang tertera pada Tabel 12 berikut.

Tabel 12. Hasil analisis regresi berbagai variabel zat makanan terhadap produktifitas burung unta

<table>
<thead>
<tr>
<th>Rataan</th>
<th>Abu</th>
<th>PK</th>
<th>SK</th>
<th>Ca</th>
<th>P</th>
<th>Energi</th>
<th>LK</th>
<th>BETN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Produk kelur</td>
<td>11,66</td>
<td>-1,40</td>
<td>-0,67</td>
<td>-0,79</td>
<td>0,09</td>
<td>-3,42</td>
<td>-1,71</td>
<td>2,72</td>
</tr>
<tr>
<td>Berat kelur</td>
<td>1353</td>
<td>18,09</td>
<td>-2,38</td>
<td>7,32</td>
<td>19,07</td>
<td>18,20</td>
<td>-5,30</td>
<td>12,98</td>
</tr>
<tr>
<td>Fertilitas</td>
<td>49,56</td>
<td>3,14</td>
<td>2,03</td>
<td>-0,77</td>
<td>3,92</td>
<td>3,30</td>
<td>1,29</td>
<td>4,72</td>
</tr>
<tr>
<td>Daya tetas</td>
<td>55,95</td>
<td>9,67</td>
<td>5,16</td>
<td>3,12</td>
<td>3,09</td>
<td>19,66</td>
<td>9,57</td>
<td>-8,99</td>
</tr>
<tr>
<td>Berat tetas</td>
<td>830,59</td>
<td>10,09</td>
<td>-7,90</td>
<td>9,57</td>
<td>9,01</td>
<td>9,77</td>
<td>-8,91</td>
<td>0,58</td>
</tr>
</tbody>
</table>

Rendahnya \( R^2 \) pada daya tetas karena hasilnya berfluktuasi tidak hanya dipengaruhi aspek ransum tetapi penanganan telur sebelum dan selama proses penetasan mungkin cukup berperan. Hal ini menunjuk bahwa aspek nutrisi bukan satu-satunya penentu tingkat produktifitas burung unta, walaupun biaya produksi ternak yang terbesar ada pada kelompok ini. Pengaruh lingkungan tidak
menunjukkan hasil yang nyata sehingga makin memperkuat asumsi bahwa burung unta mempunyai kemampuan adaptasi yang baik.

**Produksi Telur yang Ditetaskan**


Rendahnya PTL di atas disebabkan karena tidak semua telur yang diproduksi dapat ditetaskan. Telur-telur yang ditetaskan merupakan telur sehat yang mempunyai kemungkinan menetas. Jadi telur-telur yang abnormal seperti retak, keriput dan cangkang tipis tidak dihitung.

Hasil regresi menunjukkan bahwa energi dan BETN yang bertanggung jawab terhadap tingkat energi juga menurunkan PTL. Tanda negatif berarti bahwa semakin tinggi energi dan BETN akan lebih menurunkan PTL atau ransum yang selama ini diberikan mengandung energi yang berlebihan sehingga menurunkan konsumsi. Seperti diketahui bersama bahwa ternak akan cenderung

Pengaruh lingkungan ternyata tidak nyata mempengaruhi produktivitas burung unta. Berbagai variabel lingkungan yang diamati tidak satupun yang dapat dijadikan model sampai taraf signifikan 15 persen, sedangkan korelasinya dengan PTL dapat dilihat pada Tabel 13. Pola yang tidak beraturan dari variabel lingkungan tersebut menandakan bahwa sebenarnya pengaruh lingkungan tidak ada atau produktivitas burung unta tidak dipengaruhi oleh lingkungan. Hal ini memperkuat berbagai pendapat yang menyatakan bahwa burung unta mempunyai daya adaptasi yang baik terhadap lingkungannya.

Tabel 13. Korelasi faktor lingkungan dengan produksi telur

<table>
<thead>
<tr>
<th></th>
<th>Prod. telur</th>
<th>Curah hujan</th>
<th>Kelembaban</th>
<th>Temperatur</th>
<th>Kec. angin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prod. telur</td>
<td>1,000</td>
<td>-0,061</td>
<td>0,032</td>
<td>-0,306</td>
<td>-0,124</td>
</tr>
<tr>
<td>Curah hujan</td>
<td>-0,061</td>
<td>1,000</td>
<td>0,383</td>
<td>-0,341</td>
<td>-0,397</td>
</tr>
<tr>
<td>Kelembaban</td>
<td>0,032</td>
<td>0,383</td>
<td>1,000</td>
<td>-0,565</td>
<td>-0,386</td>
</tr>
<tr>
<td>Temperatur</td>
<td>-0,306</td>
<td>-0,341</td>
<td>-0,565</td>
<td>1,000</td>
<td>0,645</td>
</tr>
<tr>
<td>Kec. angin</td>
<td>-0,124</td>
<td>-0,397</td>
<td>-0,386</td>
<td>0,645</td>
<td>1,000</td>
</tr>
</tbody>
</table>
Berat Telur

Pada analisis korelasi maupun regresi tampak bahwa beberapa zat makanan seperti kadar abu, kalsium, fosfor mempunyai hubungan yang kuat dengan berat telur dan bernilai positif, sedangkan kadar BETN berperan cukup kuat untuk menurunkan berat telur. Hal ini dapat dijelaskan bahwa telur burung unta mempunyai cangkang yang sangat kuat dan tebal. Cangkang sendiri tersusun atas CaCO₃ sehingga faktor yang menentukan pembentukan cangkang telur adalah kalsium. Dijelaskan oleh Holtzhausen dan Kotze (1990) bahwa telur burung unta rata-rata setebal 2 mm dan diperlihatkan bahwa telur-telur tersebut kuat menahan beban tubuh manusia.

Berat telur dipengaruhi banyak faktor termasuk genetik, tahap kedewasaan, umur dan tentunya zat makanan dalam ransum seperti asam linoleat. Defisiensi asam linoleat dapat menyebabkan penurunan berat telur yang hebat. Hal ini sering terdapat pada ransum dengan persentase jagung kuning rendah dan tidak ditambah dengan lemak (Wahju, 1997). Koeefisien lemak yang tinggi pada analisis regresi menimbulkan kecurniga pada kurangnya asam linoleat dalam ransum.

Fertilitas

Tingkat fertilitas yang diperoleh berkisar antara 49,56%. Angka tersebut tergolong rendah jika dibandingkan rataan fertilitas burung unta di Australia. Menurut Tuckwell (1997) fertilitas telur burung unta berkisar antara 75% - 85%. Hasil regresi menunjukkan bahwa semua zat makanan mempunyai nilai koefisien yang positif kecuali serat kasar. Hal tersebut berarti bahwa nilai fertilitas masih
dapat ditingkatkan dengan meningkatkan zat makanan dalam ransum sesuai proporsi yang ditunjukkan dari hasil analisis regresi.


Selain dari faktor zat makanan dalam ransum, rasio jantan : betina sebenarnya yang lebih dapat dijadikan pedoman penyebab tinggi rendahnya fertilitas. Namun ketika ditelusuri dengan regresi ternyata hubungan antara rasio dan fertilitas tidak mempunyai pola, padahal pengaturan rasio jantan : betina sudah mengikuti petunjuk dari Tuckwell (1997) yang menyatakan bahwa perbandingan ideal adalah 1 jantan dan 2 betina.

Daya Tetas

Tingkat daya tetas sangat dipengaruhi oleh tingkat fertilitas, karena tidak mungkin telur yang tidak fertil akan dapat menetas. Rataan daya tetas yang didapat pada penelitian ini sebesar 55,95%. Angka ini lebih rendah jika

**Berat Tetas.**

Terdapat perbedaan yang cukup mencolok nilai koefisien yang dihasilkan dari analisis regresi. Beberapa zat makanan mempunyai proporsi positif tinggi, ada pula yang bernilai negatif tinggi kecuali kadar LK. Dominannya proporsi mineral (abu, Ca, P) dalam mempengaruhi berat tetas diduga karena anak burung unta mempunyai proporsi rangka yang tinggi untuk menopang fase awal pertumbuhan yang cepat. Defisien mineral menyebabkan seringnya terjadi deformis pada kaki saat fase pertumbuhan anak burung unta. Kadar protein dan energi mempunyai nilai yang negatif. Cillier et al. (1995) mendapatkan berat tetas yang mirip dengan hasil pelitian ini (867 g) dengan menggunakan kadar protein 14% yang berarti lebih rendah sekitar 3%. Walaupun protein diperlukan untuk seluruh pertumbuhan jaringan, namun ternyata peranannya dalam menghasilkan berat tetas bernilai negatif.
Berat Cangkang

Kualitas cangkang ditentukan oleh tebal dan struktur cangkang serta tidak dapat ditembus mikroorganisme. Ternyata tidak terdapat satupun variabel yang berpengaruh terhadap berat cangkang ini. Pada analisis korelasi tampak sekali bahwa semua zat makanan nilainya sangat kecil dan pada analisis regresi tidak ditemukan model yang sesuai sampai taraf signifikation 15% untuk semua PCA. Artinya bahwa dari semua variabel zat makanan yang diamati tidak menunjukkan perbedaan yang nyata dalam mempengaruhi berat cangkang. Fenomena ini kemungkinan karena cara pendekatan untuk mendapatkan berat cangkang yang kurang tepat karena tidak mempertimbangkan berat telur. Berat cangkang yang lebih tinggi bukan berarti bahwa telur akan lebih berat tetapi telur yang lebih kecil akan dapat mempunyai berat cangkang yang lebih tinggi jika cangkangnya lebih tebal.
KESIMPULAN DAN SARAN

Kesimpulan

Telaah dan analisis komposisi ransum burung unta pada dasarnya masih mengacu pada susunan ransum yang digunakan di luar negeri. Oleh karena itu pada penelitian peranan berbagai zat makanan terhadap tingkat produktivitas burung unta terdapat beberapa kekurangsesuaian yang diuraikan sbb,

Pengaruh kadar fosfor dan BETN yang digunakan dalam ransum ternyata menurunkan produksi telur yang ditetaskan. Zat makanan yang cukup kuat menaikan berat telur adalah abu, kalsium, dan fosfor serta yang menurunkan berat telur adalah BETN. Walaupun semua zat makanan masih dapat ditingkatkan untuk menaikan fertilitas, namun keseimbangan rasio kalsium dan fosfor perlu diperhatikan karena kelebihan fosfor justru akan menurunkan fertilitas.

Energi sangat diperlukan untuk memperoleh daya tetas yang tinggi. Berat tetas burung unta yang diamati sangat dipengaruhi oleh kadar abu, kalsium dan fosfor, serta dihambat oleh kadar protein dan energi. Tidak terdapat satu variabel pun yang berpengaruh terhadap berat cangkang. Selain aspek nutrisi dan lingkungan, aspek manajemen mempunyai peranan yang cukup besar dalam mempengaruhi produktivitas burung unta.

Saran

Untuk meningkatkan produktivitas, perlu adanya penelitian lanjutan dengan membedakan komposisi ransum untuk tiap-tiap tujuan produktivitas dan perhatian khusus pada manajemen pemeliharaan serta penanganan telur.
DAFTAR PUSTAKA


LAMPIRAN
Lampiran 1. Data produktivitas burung unta per periode penetasan pada tahun produksi 1

<table>
<thead>
<tr>
<th>Batch</th>
<th>Tanggal</th>
<th>Jml. Telur (gram)</th>
<th>B. telur (%)</th>
<th>Fertilitas (%)</th>
<th>Daya tetas (%)</th>
<th>B. tetas (gram)</th>
<th>B. cangkang (gram)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>27-3-97</td>
<td>36</td>
<td>1313.28</td>
<td>8.33</td>
<td>100.00</td>
<td>1058.33</td>
<td>320.48</td>
</tr>
<tr>
<td>2</td>
<td>3-4-97</td>
<td>34</td>
<td>1315.06</td>
<td>29.41</td>
<td>30.00</td>
<td>952.00</td>
<td>393.56</td>
</tr>
<tr>
<td>3</td>
<td>7-4-97</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>10-4-97</td>
<td>12</td>
<td>1309.67</td>
<td>58.33</td>
<td>14.29</td>
<td>865.00</td>
<td>482.62</td>
</tr>
<tr>
<td>5</td>
<td>14-4-97</td>
<td>3</td>
<td>1197.33</td>
<td>33.33</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>17-4-97</td>
<td>7</td>
<td>1263.71</td>
<td>14.29</td>
<td>100.00</td>
<td>920.00</td>
<td>382.74</td>
</tr>
<tr>
<td>7</td>
<td>21-4-97</td>
<td>4</td>
<td>1276.00</td>
<td>0.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>24-4-97</td>
<td>10</td>
<td>1302.00</td>
<td>20.00</td>
<td>100.00</td>
<td>855.00</td>
<td>354.65</td>
</tr>
<tr>
<td>9</td>
<td>28-4-97</td>
<td>11</td>
<td>1395.00</td>
<td>36.36</td>
<td>75.00</td>
<td>985.33</td>
<td>345.43</td>
</tr>
<tr>
<td>10</td>
<td>1-5-97</td>
<td>13</td>
<td>1310.00</td>
<td>23.08</td>
<td>33.33</td>
<td>765.00</td>
<td>406.53</td>
</tr>
<tr>
<td>11</td>
<td>5-5-97</td>
<td>17</td>
<td>1349.35</td>
<td>23.53</td>
<td>50.00</td>
<td>696.00</td>
<td>481.51</td>
</tr>
<tr>
<td>12</td>
<td>8-5-97</td>
<td>14</td>
<td>1431.62</td>
<td>28.57</td>
<td>75.00</td>
<td>820.33</td>
<td>425.09</td>
</tr>
<tr>
<td>13</td>
<td>12-5-97</td>
<td>10</td>
<td>1396.90</td>
<td>50.00</td>
<td>100.00</td>
<td>929.20</td>
<td>344.81</td>
</tr>
<tr>
<td>14</td>
<td>15-5-97</td>
<td>10</td>
<td>1371.11</td>
<td>30.00</td>
<td>100.00</td>
<td>853.67</td>
<td>379.43</td>
</tr>
<tr>
<td>15</td>
<td>19-5-97</td>
<td>14</td>
<td>1360.00</td>
<td>57.14</td>
<td>37.50</td>
<td>851.67</td>
<td>383.64</td>
</tr>
<tr>
<td>16</td>
<td>22-5-97</td>
<td>18</td>
<td>1390.17</td>
<td>44.44</td>
<td>62.50</td>
<td>903.60</td>
<td>380.09</td>
</tr>
<tr>
<td>17</td>
<td>26-5-97</td>
<td>7</td>
<td>1356.17</td>
<td>42.86</td>
<td>33.33</td>
<td>665.00</td>
<td>304.04</td>
</tr>
<tr>
<td>18</td>
<td>29-5-97</td>
<td>8</td>
<td>1302.50</td>
<td>12.50</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>19</td>
<td>2-6-97</td>
<td>5</td>
<td>1382.20</td>
<td>20.00</td>
<td>100.00</td>
<td>771.00</td>
<td>331.05</td>
</tr>
<tr>
<td>20</td>
<td>5-6-97</td>
<td>16</td>
<td>1371.43</td>
<td>25.00</td>
<td>50.00</td>
<td>877.00</td>
<td>357.81</td>
</tr>
<tr>
<td>21</td>
<td>9-6-97</td>
<td>4</td>
<td>1272.67</td>
<td>25.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>22</td>
<td>12-6-97</td>
<td>11</td>
<td>1332.82</td>
<td>54.54</td>
<td>50.00</td>
<td>760.3</td>
<td>366.33</td>
</tr>
<tr>
<td>23</td>
<td>16-6-97</td>
<td>7</td>
<td>1412.14</td>
<td>57.14</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>24</td>
<td>19-6-97</td>
<td>16</td>
<td>1361.07</td>
<td>43.75</td>
<td>14.29</td>
<td>838.00</td>
<td>289.76</td>
</tr>
<tr>
<td>25</td>
<td>23-6-97</td>
<td>11</td>
<td>1498.82</td>
<td>45.45</td>
<td>20.00</td>
<td>994.00</td>
<td>460.32</td>
</tr>
<tr>
<td>26</td>
<td>26-6-97</td>
<td>16</td>
<td>1431.44</td>
<td>25.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>27</td>
<td>30-6-97</td>
<td>14</td>
<td>1385.43</td>
<td>57.14</td>
<td>37.50</td>
<td>882.00</td>
<td>393.11</td>
</tr>
<tr>
<td>28</td>
<td>3-7-97</td>
<td>24</td>
<td>1400.91</td>
<td>50.00</td>
<td>25.00</td>
<td>825.67</td>
<td>340.55</td>
</tr>
<tr>
<td>29</td>
<td>7-7-97</td>
<td>10</td>
<td>1482.00</td>
<td>50.00</td>
<td>80.00</td>
<td>873.25</td>
<td>390.58</td>
</tr>
<tr>
<td>30</td>
<td>10-7-97</td>
<td>27</td>
<td>1450.65</td>
<td>29.63</td>
<td>100.00</td>
<td>878.13</td>
<td>353.71</td>
</tr>
<tr>
<td>31</td>
<td>14-7-97</td>
<td>13</td>
<td>1465.33</td>
<td>61.54</td>
<td>75.00</td>
<td>880.50</td>
<td>379.84</td>
</tr>
<tr>
<td>32</td>
<td>17-7-97</td>
<td>19</td>
<td>1455.29</td>
<td>68.42</td>
<td>69.23</td>
<td>853.11</td>
<td>379.01</td>
</tr>
<tr>
<td>33</td>
<td>21-7-97</td>
<td>10</td>
<td>1435.33</td>
<td>70.00</td>
<td>100.00</td>
<td>814.43</td>
<td>379.30</td>
</tr>
<tr>
<td>34</td>
<td>24-7-97</td>
<td>19</td>
<td>1441.59</td>
<td>63.16</td>
<td>75.00</td>
<td>853.44</td>
<td>426.64</td>
</tr>
<tr>
<td>35</td>
<td>28-7-97</td>
<td>8</td>
<td>1511.88</td>
<td>62.50</td>
<td>100.00</td>
<td>948.00</td>
<td>363.24</td>
</tr>
<tr>
<td>36</td>
<td>31-7-97</td>
<td>10</td>
<td>1485.60</td>
<td>80.00</td>
<td>100.00</td>
<td>906.38</td>
<td>368.88</td>
</tr>
<tr>
<td>37</td>
<td>4-8-97</td>
<td>8</td>
<td>1449.29</td>
<td>37.50</td>
<td>100.00</td>
<td>906.33</td>
<td>373.48</td>
</tr>
<tr>
<td>38</td>
<td>7-8-97</td>
<td>7</td>
<td>1543.43</td>
<td>85.71</td>
<td>83.33</td>
<td>892.80</td>
<td>400.44</td>
</tr>
<tr>
<td>39</td>
<td>11-8-97</td>
<td>7</td>
<td>1373.43</td>
<td>57.14</td>
<td>75.00</td>
<td>847.33</td>
<td>357.91</td>
</tr>
<tr>
<td>40</td>
<td>14-8-97</td>
<td>9</td>
<td>1437.75</td>
<td>66.67</td>
<td>83.33</td>
<td>903.40</td>
<td>409.53</td>
</tr>
<tr>
<td>41</td>
<td>18-8-97</td>
<td>2</td>
<td>1658.00</td>
<td>100.00</td>
<td>100.00</td>
<td>946.50</td>
<td>388.47</td>
</tr>
<tr>
<td>42</td>
<td>21-8-97</td>
<td>7</td>
<td>1437.43</td>
<td>100.00</td>
<td>71.43</td>
<td>869.00</td>
<td>409.21</td>
</tr>
<tr>
<td>43</td>
<td>25-8-97</td>
<td>5</td>
<td>1429.20</td>
<td>80.00</td>
<td>75.00</td>
<td>936.00</td>
<td>381.51</td>
</tr>
<tr>
<td>44</td>
<td>28-8-97</td>
<td>10</td>
<td>1465.90</td>
<td>80.00</td>
<td>87.50</td>
<td>863.43</td>
<td>314.85</td>
</tr>
<tr>
<td>45</td>
<td>1-9-97</td>
<td>7</td>
<td>1509.29</td>
<td>71.43</td>
<td>60.00</td>
<td>870.00</td>
<td>435.07</td>
</tr>
<tr>
<td>Batch</td>
<td>Tanggal</td>
<td>Jml. Telur</td>
<td>B. Telur (gram)</td>
<td>Fertilitas (%)</td>
<td>Daya Tetes (%)</td>
<td>B. Tetas (gram)</td>
<td>B. Cangkang (gram)</td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>------------</td>
<td>-----------------</td>
<td>----------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>46</td>
<td>4-9-97</td>
<td>7</td>
<td>1547.00</td>
<td>71.43</td>
<td>60.00</td>
<td>967.33</td>
<td>377.93</td>
</tr>
<tr>
<td>47</td>
<td>8-9-97</td>
<td>7</td>
<td>1461.71</td>
<td>57.14</td>
<td>75.00</td>
<td>856.00</td>
<td>354.40</td>
</tr>
<tr>
<td>48</td>
<td>11-9-97</td>
<td>7</td>
<td>1407.00</td>
<td>71.43</td>
<td>80.00</td>
<td>835.75</td>
<td>353.51</td>
</tr>
<tr>
<td>49</td>
<td>15-9-97</td>
<td>6</td>
<td>1506.00</td>
<td>83.33</td>
<td>100.00</td>
<td>908.60</td>
<td>351.14</td>
</tr>
<tr>
<td>50</td>
<td>18-9-97</td>
<td>8</td>
<td>1367.13</td>
<td>50.00</td>
<td>100.00</td>
<td>853.50</td>
<td>361.77</td>
</tr>
<tr>
<td>51</td>
<td>22-9-97</td>
<td>7</td>
<td>1398.29</td>
<td>57.14</td>
<td>25.00</td>
<td>884.50</td>
<td>351.92</td>
</tr>
<tr>
<td>52</td>
<td>25-9-97</td>
<td>10</td>
<td>1473.50</td>
<td>50.00</td>
<td>100.00</td>
<td>830.00</td>
<td>372.72</td>
</tr>
<tr>
<td>53</td>
<td>29-9-97</td>
<td>8</td>
<td>1536.25</td>
<td>50.00</td>
<td>100.00</td>
<td>966.25</td>
<td>363.62</td>
</tr>
<tr>
<td>54</td>
<td>2-10-97</td>
<td>12</td>
<td>1481.25</td>
<td>75.00</td>
<td>100.00</td>
<td>911.22</td>
<td>358.33</td>
</tr>
<tr>
<td>55</td>
<td>6-10-97</td>
<td>8</td>
<td>1484.25</td>
<td>62.50</td>
<td>100.00</td>
<td>916.40</td>
<td>368.43</td>
</tr>
<tr>
<td>56</td>
<td>9-10-97</td>
<td>7</td>
<td>1489.29</td>
<td>85.71</td>
<td>83.33</td>
<td>928.20</td>
<td>335.13</td>
</tr>
<tr>
<td>57</td>
<td>13-10-97</td>
<td>7</td>
<td>1421.29</td>
<td>71.43</td>
<td>100.00</td>
<td>888.80</td>
<td>344.76</td>
</tr>
<tr>
<td>58</td>
<td>16-10-97</td>
<td>11</td>
<td>1472.82</td>
<td>63.64</td>
<td>100.00</td>
<td>901.57</td>
<td>360.05</td>
</tr>
<tr>
<td>59</td>
<td>20-10-97</td>
<td>6</td>
<td>1423.67</td>
<td>33.33</td>
<td>50.00</td>
<td>1012.00</td>
<td>359.09</td>
</tr>
<tr>
<td>60</td>
<td>23-10-97</td>
<td>11</td>
<td>1446.40</td>
<td>45.45</td>
<td>80.00</td>
<td>833.75</td>
<td>308.81</td>
</tr>
<tr>
<td>61</td>
<td>27-10-97</td>
<td>9</td>
<td>1367.67</td>
<td>88.89</td>
<td>62.50</td>
<td>840.40</td>
<td>361.04</td>
</tr>
<tr>
<td>62</td>
<td>30-10-97</td>
<td>8</td>
<td>1435.63</td>
<td>100.00</td>
<td>100.00</td>
<td>886.25</td>
<td>345.80</td>
</tr>
<tr>
<td>63</td>
<td>3-11-97</td>
<td>4</td>
<td>1481.50</td>
<td>100.00</td>
<td>100.00</td>
<td>892.75</td>
<td>354.31</td>
</tr>
<tr>
<td>64</td>
<td>6-11-97</td>
<td>9</td>
<td>1414.22</td>
<td>77.78</td>
<td>71.43</td>
<td>879.60</td>
<td>373.37</td>
</tr>
<tr>
<td>65</td>
<td>11-11-97</td>
<td>9</td>
<td>1420.89</td>
<td>66.67</td>
<td>66.67</td>
<td>913.67</td>
<td>356.04</td>
</tr>
<tr>
<td>66</td>
<td>13-11-97</td>
<td>8</td>
<td>1432.75</td>
<td>87.50</td>
<td>100.00</td>
<td>947.14</td>
<td>370.41</td>
</tr>
<tr>
<td>67</td>
<td>17-11-97</td>
<td>3</td>
<td>1565.33</td>
<td>100.00</td>
<td>100.00</td>
<td>966.67</td>
<td>343.67</td>
</tr>
<tr>
<td>68</td>
<td>20-11-97</td>
<td>6</td>
<td>1516.83</td>
<td>100.00</td>
<td>100.00</td>
<td>932.33</td>
<td>336.03</td>
</tr>
<tr>
<td>69</td>
<td>24-11-97</td>
<td>8</td>
<td>1390.00</td>
<td>50.00</td>
<td>75.00</td>
<td>937.33</td>
<td>392.12</td>
</tr>
<tr>
<td>70</td>
<td>27-11-97</td>
<td>6</td>
<td>1479.17</td>
<td>50.00</td>
<td>33.33</td>
<td>730.00</td>
<td>306.62</td>
</tr>
<tr>
<td>71</td>
<td>1-12-97</td>
<td>2</td>
<td>1213.00</td>
<td>0.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>72</td>
<td>4-12-97</td>
<td>3</td>
<td>1316.00</td>
<td>33.33</td>
<td>100.00</td>
<td>738.00</td>
<td>294.53</td>
</tr>
</tbody>
</table>
Lampiran 2. Data produktivitas burung unta per periode penetasan pada tahun produksi II

<table>
<thead>
<tr>
<th>Batch</th>
<th>Tanggal</th>
<th>Jml. Telur</th>
<th>B. telur (gram)</th>
<th>Fertilitas (%)</th>
<th>Daya tetas (%)</th>
<th>B. tetas (gram)</th>
<th>B. cangkang (gram)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>28-5-98</td>
<td>1</td>
<td>1087.00</td>
<td>0.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>1-6-98</td>
<td>1</td>
<td>1148.00</td>
<td>0.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>4-6-98</td>
<td>2</td>
<td>1162.00</td>
<td>50.00</td>
<td>100.00</td>
<td>664.00</td>
<td>424.50</td>
</tr>
<tr>
<td>4</td>
<td>8-6-98</td>
<td>3</td>
<td>1228.67</td>
<td>33.33</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>11-6-98</td>
<td>5</td>
<td>1176.80</td>
<td>60.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>15-6-98</td>
<td>4</td>
<td>1204.00</td>
<td>50.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>18-6-98</td>
<td>7</td>
<td>1132.14</td>
<td>14.29</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>22-6-98</td>
<td>9</td>
<td>1235.67</td>
<td>55.56</td>
<td>100.00</td>
<td>770.80</td>
<td>328.45</td>
</tr>
<tr>
<td>9</td>
<td>25-6-98</td>
<td>12</td>
<td>1209.25</td>
<td>41.67</td>
<td>60.00</td>
<td>736.67</td>
<td>350.32</td>
</tr>
<tr>
<td>10</td>
<td>29-6-98</td>
<td>8</td>
<td>1233.75</td>
<td>25.00</td>
<td>100.00</td>
<td>892.00</td>
<td>367.82</td>
</tr>
<tr>
<td>11</td>
<td>2-7-98</td>
<td>19</td>
<td>1228.42</td>
<td>52.63</td>
<td>60.00</td>
<td>793.33</td>
<td>367.54</td>
</tr>
<tr>
<td>12</td>
<td>6-7-98</td>
<td>21</td>
<td>1229.81</td>
<td>38.10</td>
<td>75.00</td>
<td>766.83</td>
<td>367.21</td>
</tr>
<tr>
<td>13</td>
<td>9-7-98</td>
<td>28</td>
<td>1217.36</td>
<td>46.43</td>
<td>53.85</td>
<td>792.29</td>
<td>343.67</td>
</tr>
<tr>
<td>14</td>
<td>13-7-98</td>
<td>22</td>
<td>1237.18</td>
<td>36.36</td>
<td>37.50</td>
<td>767.33</td>
<td>358.17</td>
</tr>
<tr>
<td>15</td>
<td>16-7-98</td>
<td>16</td>
<td>1267.25</td>
<td>50.00</td>
<td>37.50</td>
<td>820.00</td>
<td>365.78</td>
</tr>
<tr>
<td>16</td>
<td>20-7-98</td>
<td>7</td>
<td>1297.86</td>
<td>57.14</td>
<td>100.00</td>
<td>705.25</td>
<td>364.91</td>
</tr>
<tr>
<td>17</td>
<td>23-7-98</td>
<td>11</td>
<td>1335.36</td>
<td>36.36</td>
<td>25.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>18</td>
<td>27-7-98</td>
<td>10</td>
<td>1235.00</td>
<td>20.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>19</td>
<td>30-7-98</td>
<td>17</td>
<td>1183.47</td>
<td>41.18</td>
<td>42.86</td>
<td>839.67</td>
<td>393.00</td>
</tr>
<tr>
<td>20</td>
<td>2-8-98</td>
<td>12</td>
<td>1246.17</td>
<td>33.33</td>
<td>25.00</td>
<td>673.00</td>
<td>436.38</td>
</tr>
<tr>
<td>21</td>
<td>6-8-98</td>
<td>22</td>
<td>1262.82</td>
<td>40.91</td>
<td>22.22</td>
<td>538.00</td>
<td>456.45</td>
</tr>
<tr>
<td>22</td>
<td>10-8-98</td>
<td>11</td>
<td>1287.09</td>
<td>81.82</td>
<td>11.11</td>
<td>635.00</td>
<td>485.91</td>
</tr>
<tr>
<td>23</td>
<td>13-8-98</td>
<td>23</td>
<td>1264.36</td>
<td>17.39</td>
<td>25.00</td>
<td>553.00</td>
<td>416.53</td>
</tr>
<tr>
<td>24</td>
<td>17-8-98</td>
<td>23</td>
<td>1305.22</td>
<td>69.57</td>
<td>25.00</td>
<td>800.00</td>
<td>394.70</td>
</tr>
<tr>
<td>25</td>
<td>20-8-98</td>
<td>16</td>
<td>1260.06</td>
<td>37.50</td>
<td>66.67</td>
<td>772.50</td>
<td>317.36</td>
</tr>
<tr>
<td>26</td>
<td>24-8-98</td>
<td>13</td>
<td>1301.39</td>
<td>69.23</td>
<td>11.11</td>
<td>501.00</td>
<td>716.78</td>
</tr>
<tr>
<td>27</td>
<td>27-8-98</td>
<td>27</td>
<td>1286.11</td>
<td>48.15</td>
<td>7.69</td>
<td>677.00</td>
<td>356.34</td>
</tr>
<tr>
<td>28</td>
<td>31-8-98</td>
<td>17</td>
<td>1260.71</td>
<td>58.82</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>29</td>
<td>3-9-98</td>
<td>16</td>
<td>1309.81</td>
<td>43.75</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>30</td>
<td>7-9-98</td>
<td>13</td>
<td>1303.31</td>
<td>23.08</td>
<td>33.33</td>
<td>915.00</td>
<td>362.33</td>
</tr>
<tr>
<td>31</td>
<td>10-9-98</td>
<td>22</td>
<td>1269.00</td>
<td>36.36</td>
<td>50.00</td>
<td>701.00</td>
<td>313.52</td>
</tr>
<tr>
<td>32</td>
<td>14-9-98</td>
<td>10</td>
<td>1280.80</td>
<td>40.00</td>
<td>25.00</td>
<td>836.00</td>
<td>376.72</td>
</tr>
<tr>
<td>33</td>
<td>17-9-98</td>
<td>28</td>
<td>1280.93</td>
<td>64.29</td>
<td>22.22</td>
<td>798.50</td>
<td>370.65</td>
</tr>
<tr>
<td>34</td>
<td>21-9-98</td>
<td>24</td>
<td>1284.42</td>
<td>41.67</td>
<td>30.00</td>
<td>820.67</td>
<td>356.95</td>
</tr>
<tr>
<td>35</td>
<td>24-9-98</td>
<td>34</td>
<td>1621.77</td>
<td>47.06</td>
<td>18.75</td>
<td>884.67</td>
<td>318.73</td>
</tr>
<tr>
<td>36</td>
<td>28-9-98</td>
<td>18</td>
<td>1339.56</td>
<td>36.89</td>
<td>71.43</td>
<td>854.40</td>
<td>372.44</td>
</tr>
<tr>
<td>37</td>
<td>1-10-98</td>
<td>17</td>
<td>1362.94</td>
<td>47.06</td>
<td>87.50</td>
<td>889.86</td>
<td>355.79</td>
</tr>
<tr>
<td>38</td>
<td>5-10-98</td>
<td>10</td>
<td>1264.80</td>
<td>20.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>39</td>
<td>8-10-98</td>
<td>8</td>
<td>1332.50</td>
<td>50.00</td>
<td>50.00</td>
<td>826.50</td>
<td>340.43</td>
</tr>
<tr>
<td>40</td>
<td>12-10-98</td>
<td>6</td>
<td>1181.50</td>
<td>16.67</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>41</td>
<td>15-10-98</td>
<td>17</td>
<td>1292.29</td>
<td>17.65</td>
<td>33.33</td>
<td>770.00</td>
<td>307.28</td>
</tr>
<tr>
<td>42</td>
<td>19-10-98</td>
<td>14</td>
<td>1333.21</td>
<td>14.29</td>
<td>100.00</td>
<td>660.00</td>
<td>334.41</td>
</tr>
<tr>
<td>43</td>
<td>22-10-98</td>
<td>5</td>
<td>1243.60</td>
<td>20.00</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>44</td>
<td>26-10-98</td>
<td>16</td>
<td>1239.94</td>
<td>18.75</td>
<td>33.33</td>
<td>749.00</td>
<td>398.51</td>
</tr>
<tr>
<td>45</td>
<td>29-10-98</td>
<td>9</td>
<td>1283.56</td>
<td>55.56</td>
<td>20.00</td>
<td>766.00</td>
<td>311.07</td>
</tr>
<tr>
<td>Batch</td>
<td>Tanggal</td>
<td>Jml.Telur</td>
<td>B.telur (gram)</td>
<td>Fertilitas (%)</td>
<td>Daya tetas (%)</td>
<td>B.tetas (gram)</td>
<td>B.cangkang (gram)</td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>-----------</td>
<td>----------------</td>
<td>---------------</td>
<td>--------------</td>
<td>---------------</td>
<td>------------------</td>
</tr>
<tr>
<td>46</td>
<td>2-11-98</td>
<td>9</td>
<td>1222.11</td>
<td>22.22</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>47</td>
<td>5-11-98</td>
<td>18</td>
<td>1276.83</td>
<td>38.89</td>
<td>42.86</td>
<td>718.33</td>
<td>349.45</td>
</tr>
<tr>
<td>48</td>
<td>9-11-98</td>
<td>10</td>
<td>1325.40</td>
<td>60.00</td>
<td>50.00</td>
<td>810.00</td>
<td>329.59</td>
</tr>
<tr>
<td>49</td>
<td>12-11-98</td>
<td>13</td>
<td>1276.69</td>
<td>68.23</td>
<td>55.56</td>
<td>811.25</td>
<td>362.54</td>
</tr>
<tr>
<td>50</td>
<td>16-11-98</td>
<td>21</td>
<td>1346.71</td>
<td>28.57</td>
<td>33.33</td>
<td>780.50</td>
<td>349.66</td>
</tr>
<tr>
<td>51</td>
<td>19-11-98</td>
<td>18</td>
<td>1267.56</td>
<td>11.11</td>
<td>50.00</td>
<td>818.00</td>
<td>389.08</td>
</tr>
<tr>
<td>52</td>
<td>23-11-98</td>
<td>9</td>
<td>1291.44</td>
<td>44.44</td>
<td>75.00</td>
<td>821.67</td>
<td>346.92</td>
</tr>
<tr>
<td>53</td>
<td>26-11-98</td>
<td>19</td>
<td>1279.95</td>
<td>57.89</td>
<td>54.54</td>
<td>832.00</td>
<td>339.08</td>
</tr>
<tr>
<td>54</td>
<td>30-11-98</td>
<td>13</td>
<td>1272.62</td>
<td>46.15</td>
<td>33.33</td>
<td>729.00</td>
<td>309.90</td>
</tr>
<tr>
<td>55</td>
<td>3-12-98</td>
<td>15</td>
<td>1311.13</td>
<td>66.67</td>
<td>40.00</td>
<td>827.25</td>
<td>313.43</td>
</tr>
<tr>
<td>56</td>
<td>7-12-98</td>
<td>16</td>
<td>1374.38</td>
<td>56.25</td>
<td>44.44</td>
<td>885.00</td>
<td>319.57</td>
</tr>
<tr>
<td>57</td>
<td>10-12-98</td>
<td>23</td>
<td>1270.35</td>
<td>30.43</td>
<td>71.43</td>
<td>776.20</td>
<td>319.97</td>
</tr>
<tr>
<td>58</td>
<td>14-12-98</td>
<td>17</td>
<td>1290.06</td>
<td>41.18</td>
<td>42.86</td>
<td>912.33</td>
<td>305.22</td>
</tr>
<tr>
<td>59</td>
<td>17-12-98</td>
<td>20</td>
<td>1299.70</td>
<td>50.00</td>
<td>90.00</td>
<td>745.22</td>
<td>300.56</td>
</tr>
<tr>
<td>60</td>
<td>21-12-98</td>
<td>19</td>
<td>1292.47</td>
<td>47.37</td>
<td>66.67</td>
<td>814.33</td>
<td>288.85</td>
</tr>
<tr>
<td>61</td>
<td>24-12-98</td>
<td>36</td>
<td>1343.17</td>
<td>36.11</td>
<td>69.23</td>
<td>841.78</td>
<td>296.33</td>
</tr>
<tr>
<td>62</td>
<td>28-12-98</td>
<td>16</td>
<td>1336.69</td>
<td>25.00</td>
<td>75.00</td>
<td>789.33</td>
<td>298.17</td>
</tr>
<tr>
<td>63</td>
<td>31-12-98</td>
<td>12</td>
<td>1364.08</td>
<td>41.67</td>
<td>40.00</td>
<td>856.00</td>
<td>283.94</td>
</tr>
<tr>
<td>64</td>
<td>4-1-99</td>
<td>17</td>
<td>1342.59</td>
<td>47.06</td>
<td>62.50</td>
<td>790.60</td>
<td>311.08</td>
</tr>
<tr>
<td>65</td>
<td>7-1-99</td>
<td>34</td>
<td>1327.06</td>
<td>44.12</td>
<td>80.00</td>
<td>826.25</td>
<td>319.35</td>
</tr>
<tr>
<td>66</td>
<td>11-1-99</td>
<td>27</td>
<td>1302.26</td>
<td>29.63</td>
<td>50.00</td>
<td>730.00</td>
<td>335.15</td>
</tr>
<tr>
<td>67</td>
<td>14-1-99</td>
<td>19</td>
<td>1330.84</td>
<td>36.84</td>
<td>85.72</td>
<td>796.17</td>
<td>303.42</td>
</tr>
<tr>
<td>68</td>
<td>18-1-99</td>
<td>15</td>
<td>1329.73</td>
<td>26.67</td>
<td>50.00</td>
<td>743.00</td>
<td>292.17</td>
</tr>
<tr>
<td>69</td>
<td>21-1-99</td>
<td>7</td>
<td>1341.00</td>
<td>14.29</td>
<td>0.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>70</td>
<td>25-1-99</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>71</td>
<td>28-1-98</td>
<td>9</td>
<td>1315.67</td>
<td>77.78</td>
<td>71.43</td>
<td>835.20</td>
<td>298.58</td>
</tr>
</tbody>
</table>
Lampiran 3. Data produksi telur burung unta tahun 1

Maret 1997

<table>
<thead>
<tr>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>13</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>14</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>15</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>16</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>17</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>18</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>19</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>21</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>24</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>25</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>26</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>28</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>29</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>30</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>31</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>total</td>
<td>105</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>105</td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 3,4 butir
April 1997

<table>
<thead>
<tr>
<th></th>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>17</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>18</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>19</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>20</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>22</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>23</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>27</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>28</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>29</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>total</td>
<td>30</td>
<td>51</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>81</td>
</tr>
</tbody>
</table>

nb. Produl si rata-rata per hari 2,7 butir
Mei 1997

<table>
<thead>
<tr>
<th>tg</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>2</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>15</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>17</td>
<td>1</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>18</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>19</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>22</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>29</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>31</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>total</td>
<td>13</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>93</td>
</tr>
</tbody>
</table>

*nb.*

Produksi rata-rata per hari 3 butir
Juni 1997

<table>
<thead>
<tr>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>13</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>17</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>18</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>19</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>20</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>22</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>23</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>24</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>26</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>27</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>28</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>29</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>total</td>
<td>9</td>
<td>64</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 3,9 butir
Juli 1997

<table>
<thead>
<tr>
<th></th>
<th>tq</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>6</td>
<td>1</td>
<td>6</td>
<td>1</td>
<td>6</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>16</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>17</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>18</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>19</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>20</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>22</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>27</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>28</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>29</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>31</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>total</td>
<td>56</td>
<td>16</td>
<td>11</td>
<td>23</td>
<td>11</td>
<td>4</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 3,903 butir
Agustus 1957

<table>
<thead>
<tr>
<th></th>
<th>qo</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>2</td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>total</td>
<td>13</td>
<td>8</td>
<td>20</td>
<td>13</td>
<td>5</td>
<td>69</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**nb.**
Produksi rata-rata per hari 1,9 butir
<table>
<thead>
<tr>
<th>tg</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>28</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>29</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>total</td>
<td>20</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>68</td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 2,3 butir
Oktober 1997

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>l1</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total</td>
<td></td>
<td>26</td>
<td>8</td>
<td>7</td>
<td>14</td>
<td>15</td>
<td>1</td>
<td>71</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 2,3 butir
Nopember 1997

<table>
<thead>
<tr>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td>50</td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 1,7 butir
Desember 1997

<table>
<thead>
<tr>
<th></th>
<th>q1</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

nb.
Off breeding season
Januari 1998

<table>
<thead>
<tr>
<th></th>
<th>tl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total</td>
<td></td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

nb.
Off breeding season
Februari 1998

<table>
<thead>
<tr>
<th></th>
<th>tgl</th>
<th>qp2</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

nb.
Off breeding season
Lampiran 4. Data produksi telur burung unta tahun II

Mei 1998

<table>
<thead>
<tr>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 0,16 butir
Juni 1998

<table>
<thead>
<tr>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>15</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>16</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>17</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>18</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>19</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>27</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>28</td>
<td>5</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>29</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>30</td>
<td>5</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>total</td>
<td>40</td>
<td>29</td>
<td>11</td>
<td>5</td>
<td>3</td>
<td>88</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 2,93 butir
<table>
<thead>
<tr>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
<td>2</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>9</td>
<td>3</td>
<td>4</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>14</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>17</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>18</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>19</td>
<td>4</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>21</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>22</td>
<td>9</td>
<td>4</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>27</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>28</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>29</td>
<td>6</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>31</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td><strong>total</strong></td>
<td><strong>84</strong></td>
<td><strong>39</strong></td>
<td><strong>30</strong></td>
<td><strong>7</strong></td>
<td><strong>7</strong></td>
<td><strong>4</strong></td>
<td><strong>5</strong></td>
<td><strong>176</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 5,67 butir
Agustus 1998

<table>
<thead>
<tr>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>11</td>
<td>8</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>16</td>
</tr>
<tr>
<td>12</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>13</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>14</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>15</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>17</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>18</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>19</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>20</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>21</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>22</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>23</td>
<td>8</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>24</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td>3</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>27</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>28</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>29</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>30</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>31</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>total</td>
<td>80</td>
<td>82</td>
<td>3</td>
<td>7</td>
<td>9</td>
<td>2</td>
<td>183</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 5,90 butir
### September 1998

<table>
<thead>
<tr>
<th>tgl</th>
<th>gp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>3</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>1</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>2</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>4</td>
<td>3</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>3</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>4</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>5</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>2</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>5</td>
<td>7</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>2</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>1</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>4</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>4</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>4</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td>1</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>total</strong></td>
<td></td>
<td>75</td>
<td>91</td>
<td>4</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>185</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 6,17 butir
<table>
<thead>
<tr>
<th>Tanggal</th>
<th>Tg</th>
<th>Qp</th>
<th>Kp1</th>
<th>Kp2</th>
<th>Kp3</th>
<th>Kp4</th>
<th>Tp1</th>
<th>Tp2</th>
<th>Tp3</th>
<th>Tp4</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>12</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>14</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>17</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>19</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>20</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>21</td>
<td>4</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>28</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>29</td>
<td>2</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>31</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>total</strong></td>
<td>47</td>
<td>66</td>
<td>2</td>
<td>14</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>109</strong></td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 3,52 butir
<table>
<thead>
<tr>
<th>No</th>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>5</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>11</td>
<td>6</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>12</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>13</td>
<td>6</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>16</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>18</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>23</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td>3</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>total</td>
<td>69</td>
<td>60</td>
<td>64</td>
<td>18</td>
<td>11</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>141</td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 4,7 butir
Desember 1998

<table>
<thead>
<tr>
<th>tgl</th>
<th>qp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>lp1</th>
<th>lp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>6</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>6</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>4</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>12</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td>4</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>14</td>
<td>7</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>15</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>16</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>17</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>18</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>19</td>
<td>3</td>
<td>4</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>20</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>21</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>22</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>23</td>
<td>7</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>24</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>27</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>28</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>29</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>30</td>
<td>2</td>
<td>4</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>31</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**total**: 1 90 77 2 10 6 3 189

nb.
Produksi rata-rata per hari 6,1 butir
Januari 1999

<table>
<thead>
<tr>
<th>tgl</th>
<th>gp</th>
<th>kp1</th>
<th>kp2</th>
<th>kp3</th>
<th>kp4</th>
<th>tp1</th>
<th>tp2</th>
<th>tp3</th>
<th>tp4</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>9</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>7</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>8</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>2</td>
<td>7</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>15</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>23</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>24</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>25</td>
<td>3</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>27</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total</td>
<td>2</td>
<td>55</td>
<td>60</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td>134</td>
</tr>
</tbody>
</table>

nb.
Produksi rata-rata per hari 4,32 butir
Lampiran 5. Perhitungan analisis regresi peranan masing-masing zat makanan terhadap produktivitas burung unta

1. Stepwise Procedure for Dependent Variable BCANG

No variable met the 0.1500 significance level for entry into the model.

2. Stepwise Procedure for Dependent Variable PTLR

Step 1 Variable P Entered  \( R\text{-square} = 0.11597318 \quad C(p) = 2.02685264 \)

<table>
<thead>
<tr>
<th></th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>1</td>
<td>721.64947296</td>
<td>721.64947296</td>
<td>15.35</td>
<td>0.0002</td>
</tr>
<tr>
<td>Error</td>
<td>117</td>
<td>5500.90514889</td>
<td>47.01628332</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>118</td>
<td>6222.55462185</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Parameter Variable Estimate Error Type II Sum of Squares F Prob>F
INTERCEP 25.80167975 3.66297147 2332.79825842 49.62 0.0001
P -13.70925595 3.49924929 721.64947296 15.35 0.0002

Summary of Stepwise Procedure for Dependent Variable PTLR

<table>
<thead>
<tr>
<th>Variable</th>
<th>Step</th>
<th>Entered</th>
<th>Removed</th>
<th>Number</th>
<th>Partial R(^2)</th>
<th>Model R(^2)</th>
<th>C(p)</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>P</td>
<td></td>
<td>0.1160</td>
<td>0.1160</td>
<td>2.0269</td>
<td></td>
<td>15.3489</td>
<td>0.0002</td>
</tr>
</tbody>
</table>

3. Stepwise Procedure for Dependent Variable BTLR

Step 1 Variable ABU Entered  \( R\text{-square} = 0.58963673 \quad C(p) = 0.09103298 \)

<table>
<thead>
<tr>
<th></th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>1</td>
<td>854934.34894406</td>
<td>854934.34894406</td>
<td>166.68</td>
<td>0.0001</td>
</tr>
<tr>
<td>Error</td>
<td>116</td>
<td>594999.65238153</td>
<td>5129.30734812</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>117</td>
<td>1449934.0013256</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Parameter Variable Estimate Standard Error Type II Sum of Squares F Prob>F
INTERCEP 1122.04637342 19.11634408 17671387.813463 3445.18 0.0001
ABU 24.80990746 1.92171121 854934.34894406 166.68 0.0001
Summary of Stepwise Procedure for Dependent Variable BTLR

<table>
<thead>
<tr>
<th>Step</th>
<th>Entered</th>
<th>Removed</th>
<th>Number In</th>
<th>Partial R**2</th>
<th>Model R**2</th>
<th>C(p)</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ABU</td>
<td></td>
<td>1</td>
<td>0.5896</td>
<td>0.5896</td>
<td>0.0910</td>
<td>166.6764</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

4. Stepwise Procedure for Dependent Variable BTES

Step 1 Variable BETN Entered  R-square = 0.31491528  C(p) = 0.95438714

<table>
<thead>
<tr>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>1</td>
<td>302132.47833877</td>
<td>302132.47833877</td>
<td>43.67</td>
</tr>
<tr>
<td>Error</td>
<td>95</td>
<td>657726.28186533</td>
<td>6918.69770385</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>96</td>
<td>959408.76020410</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEP</td>
<td>1346.47807705</td>
<td>77.47354179</td>
<td>2089854.7745249</td>
<td>302.06</td>
</tr>
<tr>
<td>BETN</td>
<td>-9.64551992</td>
<td>1.45961767</td>
<td>302132.47833877</td>
<td>43.67</td>
</tr>
</tbody>
</table>

Summary of Stepwise Procedure for Dependent Variable BTES

<table>
<thead>
<tr>
<th>Step</th>
<th>Entered</th>
<th>Removed</th>
<th>Number In</th>
<th>Partial R**2</th>
<th>Model R**2</th>
<th>C(p)</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BETN</td>
<td></td>
<td>1</td>
<td>0.3149</td>
<td>0.3149</td>
<td>0.9544</td>
<td>43.6690</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

5. Stepwise Procedure for Dependent Variable FT

Step 1 Variable CA Entered  R-square = 0.36737025  C(p) = 12.30696813

<table>
<thead>
<tr>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>1</td>
<td>21501.53822499</td>
<td>21501.53822499</td>
<td>65.04</td>
</tr>
<tr>
<td>Error</td>
<td>112</td>
<td>37026.71225263</td>
<td>330.59564511</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>58528.25047762</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEP</td>
<td>21.91943009</td>
<td>3.85804549</td>
<td>10671.38910489</td>
<td>32.28</td>
</tr>
<tr>
<td>CA</td>
<td>13.03495913</td>
<td>1.61630558</td>
<td>21501.53822499</td>
<td>65.04</td>
</tr>
</tbody>
</table>

60
Step 2 Variable BETN Entered  
\[ R^2 = 0.42633128 \quad C(p) = 2.90797176 \]

<table>
<thead>
<tr>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>2</td>
<td>24952.42385502</td>
<td>12476.21192751</td>
<td>41.25</td>
</tr>
<tr>
<td>Error</td>
<td>111</td>
<td>33575.82662260</td>
<td>302.48492453</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>58528.25047762</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Parameter Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEP</td>
<td>-129.63607499</td>
<td>45.02173323</td>
<td>2507.90488263</td>
<td>8.29</td>
<td>0.0048</td>
</tr>
<tr>
<td>CA</td>
<td>25.03255373</td>
<td>3.87394684</td>
<td>12630.09845953</td>
<td>41.75</td>
<td>0.0001</td>
</tr>
<tr>
<td>BETN</td>
<td>2.35133971</td>
<td>0.69614861</td>
<td>3450.88563003</td>
<td>11.41</td>
<td>0.0010</td>
</tr>
</tbody>
</table>

Summary of Stepwise Procedure for Dependent Variable FT

<table>
<thead>
<tr>
<th>Step</th>
<th>Variable Entered Removed</th>
<th>Number</th>
<th>Partial R(^2)</th>
<th>Model R(^2)</th>
<th>Model C(p)</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CA</td>
<td>1</td>
<td>0.3674</td>
<td>0.3674</td>
<td>12.3070</td>
<td>65.0388</td>
<td>0.0001</td>
</tr>
<tr>
<td>2</td>
<td>BETN</td>
<td>2</td>
<td>0.0590</td>
<td>0.4263</td>
<td>2.9080</td>
<td>11.4085</td>
<td>0.0010</td>
</tr>
</tbody>
</table>

6. Stepwise Procedure for Dependent Variable HTCH

Step 1 Variable P Entered  
\[ R^2 = 0.35015291 \quad C(p) = 2.24882238 \]

<table>
<thead>
<tr>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>1</td>
<td>52472.91516506</td>
<td>52472.91516506</td>
<td>60.35</td>
</tr>
<tr>
<td>Error</td>
<td>112</td>
<td>97384.23070320</td>
<td>869.50205985</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>149857.14586825</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Parameter Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEP</td>
<td>-66.52591421</td>
<td>16.03908239</td>
<td>14958.68032784</td>
<td>17.20</td>
<td>0.0001</td>
</tr>
<tr>
<td>P</td>
<td>118.80821279</td>
<td>15.29375661</td>
<td>52472.91516506</td>
<td>60.35</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

Step 2 Variable BETN Entered  
\[ R^2 = 0.36313566 \quad C(p) = 2.00629729 \]

<table>
<thead>
<tr>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>2</td>
<td>54418.47304112</td>
<td>27209.23652056</td>
<td>31.65</td>
</tr>
<tr>
<td>Error</td>
<td>111</td>
<td>95438.67282714</td>
<td>859.80786331</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>149857.14586825</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Variable</td>
<td>Parameter Estimate</td>
<td>Standard Error</td>
<td>Type II Sum of Squares</td>
<td>F</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------</td>
<td>----------------</td>
<td>-----------------------</td>
<td>-----</td>
</tr>
<tr>
<td>INTERCEP</td>
<td>-253.13416075</td>
<td>125.07472173</td>
<td>3521.79309235</td>
<td>4.10</td>
</tr>
<tr>
<td>P</td>
<td>186.06881184</td>
<td>47.22917203</td>
<td>13345.28697803</td>
<td>15.52</td>
</tr>
<tr>
<td>BETN</td>
<td>2.18814476</td>
<td>1.45463717</td>
<td>1945.55787606</td>
<td>2.26</td>
</tr>
</tbody>
</table>

Summary of Stepwise Procedure for Dependent Variable HTCH

<table>
<thead>
<tr>
<th>Step</th>
<th>Variable</th>
<th>Number Entered</th>
<th>Removed</th>
<th>In</th>
<th>Partial R**2</th>
<th>Model R**2</th>
<th>C(p)</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P</td>
<td>1</td>
<td></td>
<td></td>
<td>0.3502</td>
<td>0.3502</td>
<td>2.2488</td>
<td>60.3482</td>
<td>0.0001</td>
</tr>
<tr>
<td>2</td>
<td>BETN</td>
<td>2</td>
<td></td>
<td></td>
<td>0.0130</td>
<td>0.3631</td>
<td>2.0063</td>
<td>2.2628</td>
<td>0.1354</td>
</tr>
</tbody>
</table>
Lampiran 6. Analisis PCA komponen zat makanan dalam ransum burung unta

**Eigenvalues of the Correlation Matrix**

<table>
<thead>
<tr>
<th>PCA1</th>
<th>5.35730</th>
<th>2.77917</th>
<th>0.669662</th>
<th>0.66966</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCA2</td>
<td>2.57813</td>
<td>2.51357</td>
<td>0.322267</td>
<td>0.99193</td>
</tr>
<tr>
<td>PCA3</td>
<td>0.06457</td>
<td>0.06457</td>
<td>0.008071</td>
<td>1.00000</td>
</tr>
<tr>
<td>PCA4</td>
<td>0.00000</td>
<td>0.00000</td>
<td>0.000000</td>
<td>1.00000</td>
</tr>
<tr>
<td>PCA5</td>
<td>0.00000</td>
<td>0.00000</td>
<td>0.000000</td>
<td>1.00000</td>
</tr>
<tr>
<td>PCA6</td>
<td>0.00000</td>
<td>0.00000</td>
<td>0.000000</td>
<td>1.00000</td>
</tr>
<tr>
<td>PCA7</td>
<td>0.00000</td>
<td>0.00000</td>
<td>0.000000</td>
<td>1.00000</td>
</tr>
</tbody>
</table>

**Principal Component Analysis**

**Eigenvectors**

<table>
<thead>
<tr>
<th></th>
<th>PCA1</th>
<th>PCA2</th>
<th>PCA3</th>
<th>PCA4</th>
<th>PCA5</th>
<th>PCA6</th>
<th>PCA7</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABU</td>
<td>0.403618</td>
<td>0.219739</td>
<td>0.207153</td>
<td>-0.125220</td>
<td>-0.241283</td>
<td>0.819754</td>
<td>0.000000</td>
</tr>
<tr>
<td>PK</td>
<td>-0.315977</td>
<td>0.423663</td>
<td>0.191533</td>
<td>0.259189</td>
<td>-0.007601</td>
<td>0.030965</td>
<td>-0.784721</td>
</tr>
<tr>
<td>SK</td>
<td>0.382681</td>
<td>-0.288744</td>
<td>0.088461</td>
<td>0.873130</td>
<td>0.000000</td>
<td>0.000000</td>
<td>0.000000</td>
</tr>
<tr>
<td>CA</td>
<td>0.360189</td>
<td>0.343678</td>
<td>-0.083359</td>
<td>-0.035766</td>
<td>0.862509</td>
<td>0.000000</td>
<td>0.000000</td>
</tr>
<tr>
<td>P</td>
<td>0.390868</td>
<td>0.247034</td>
<td>0.612111</td>
<td>-0.151634</td>
<td>-0.208792</td>
<td>-0.497967</td>
<td>0.057676</td>
</tr>
<tr>
<td>GE</td>
<td>-0.356513</td>
<td>0.345873</td>
<td>0.406384</td>
<td>0.229462</td>
<td>0.059855</td>
<td>0.032796</td>
<td>0.505981</td>
</tr>
<tr>
<td>LK</td>
<td>0.023290</td>
<td>0.615810</td>
<td>-0.548277</td>
<td>0.248989</td>
<td>-0.297768</td>
<td>-0.087598</td>
<td>0.270937</td>
</tr>
<tr>
<td>BETN</td>
<td>0.425028</td>
<td>-0.104213</td>
<td>0.255329</td>
<td>0.125952</td>
<td>0.248919</td>
<td>0.265187</td>
<td>0.226853</td>
</tr>
</tbody>
</table>
Lampiran 7. Perhitungan analisis regresi PCA komponen ransum terhadap produktivitas burung unta

1. Stepwise Procedure for Dependent Variable BCANG

No variable met the 0.1500 significance level for entry into the model.

2. Stepwise Procedure for Dependent Variable PTLR

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Variable PCA1 Entered</th>
<th>R-square = 0.15316202</th>
<th>C(p) = 6.37037098</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DF</td>
<td>Sum of Squares</td>
<td>Mean Square</td>
</tr>
<tr>
<td>Regression</td>
<td>1</td>
<td>517.48024256</td>
<td>517.48024256</td>
</tr>
<tr>
<td>Error</td>
<td>117</td>
<td>5705.07437929</td>
<td>48.76131948</td>
</tr>
<tr>
<td>Total</td>
<td>118</td>
<td>6222.55462185</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Parameter Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEP</td>
<td>11.66386555</td>
<td>0.64012420</td>
<td>16189.44537815</td>
<td>332.01</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA1</td>
<td>-0.90475905</td>
<td>0.27773063</td>
<td>517.48024256</td>
<td>10.61</td>
<td>0.0015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Step 2</th>
<th>Variable PCA3 Entered</th>
<th>R-square = 0.22681858</th>
<th>C(p) = 4.31207739</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DF</td>
<td>Sum of Squares</td>
<td>Mean Square</td>
</tr>
<tr>
<td>Regression</td>
<td>2</td>
<td>708.24234214</td>
<td>354.12117107</td>
</tr>
<tr>
<td>Error</td>
<td>116</td>
<td>5514.31227971</td>
<td>47.53717483</td>
</tr>
<tr>
<td>Total</td>
<td>118</td>
<td>6222.55462185</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Parameter Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEP</td>
<td>11.66386555</td>
<td>0.63203802</td>
<td>16189.44537815</td>
<td>340.56</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA1</td>
<td>-0.90475905</td>
<td>0.27422228</td>
<td>517.48024256</td>
<td>10.89</td>
<td>0.0013</td>
</tr>
<tr>
<td>PCA3</td>
<td>-5.00377867</td>
<td>2.49786365</td>
<td>190.76209957</td>
<td>4.01</td>
<td>0.0475</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Step 3</th>
<th>Variable PCA2 Entered</th>
<th>R-square = 0.27812413</th>
<th>C(p) = 4.00000000</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DF</td>
<td>Sum of Squares</td>
<td>Mean Square</td>
</tr>
<tr>
<td>Regression</td>
<td>3</td>
<td>816.92268464</td>
<td>272.30756155</td>
</tr>
<tr>
<td>Error</td>
<td>115</td>
<td>5405.63193721</td>
<td>47.00549511</td>
</tr>
<tr>
<td>Total</td>
<td>118</td>
<td>6222.55462185</td>
<td></td>
</tr>
</tbody>
</table>
Summary of Stepwise Procedure for Dependent Variable BTLR

<table>
<thead>
<tr>
<th>Step</th>
<th>Entered</th>
<th>Removed</th>
<th>Number In</th>
<th>Partial R**2</th>
<th>Model R**2</th>
<th>C(p)</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCA1</td>
<td></td>
<td>1</td>
<td>0.8132</td>
<td>0.8132</td>
<td>22.8569</td>
<td>119.6538</td>
<td>0.0001</td>
</tr>
<tr>
<td>2</td>
<td>PCA2</td>
<td></td>
<td>2</td>
<td>0.1355</td>
<td>0.9487</td>
<td>2.6221</td>
<td>22.3081</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

4. Stepwise Procedure for Dependent Variable BTES

Step 1  Variable PCA1 Entered  R-square = 0.81329152  C(p) = 0.24450360

<table>
<thead>
<tr>
<th></th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>1</td>
<td>307098.60742585</td>
<td>307098.60742585</td>
<td>44.72</td>
<td>0.0001</td>
</tr>
<tr>
<td>Error</td>
<td>95</td>
<td>652310.15277825</td>
<td>6866.42266082</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>96</td>
<td>959408.76020410</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Parameter Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEPT</td>
<td>830.59101355</td>
<td>8.47792320</td>
<td>65906163.685007</td>
<td>959.83</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA1</td>
<td>25.00204074</td>
<td>3.73853802</td>
<td>307098.60742585</td>
<td>44.72</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

Summary of Stepwise Procedure for Dependent Variable BTES

<table>
<thead>
<tr>
<th>Step</th>
<th>Entered</th>
<th>Removed</th>
<th>Number In</th>
<th>Partial R**2</th>
<th>Model R**2</th>
<th>C(p)</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCA1</td>
<td></td>
<td>1</td>
<td>0.8132</td>
<td>0.8132</td>
<td>0.2445</td>
<td>44.72</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

5. Stepwise Procedure for Dependent Variable FT

Step 1  Variable PCA2 Entered  R-square = 0.71283532  C(p) = 28.52491563

<table>
<thead>
<tr>
<th></th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>1</td>
<td>16591.78300499</td>
<td>16591.78300499</td>
<td>44.31</td>
<td>0.0001</td>
</tr>
<tr>
<td>Error</td>
<td>112</td>
<td>41936.46747263</td>
<td>374.43274529</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>58528.25047762</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Parameter Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEPT</td>
<td>49.57668355</td>
<td>1.81274428</td>
<td>280062.96326222</td>
<td>747.97</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA2</td>
<td>7.61691085</td>
<td>1.14424561</td>
<td>16591.78300499</td>
<td>44.31</td>
<td>0.0001</td>
</tr>
</tbody>
</table>
Step 2  Variable PCA1 Entered  \( R^2 = 0.17011061 \)  \( C(p) = 3.33729595 \)

<table>
<thead>
<tr>
<th></th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>2</td>
<td>24822.45200101</td>
<td>12411.22600050</td>
<td>40.87</td>
<td>0.0001</td>
</tr>
<tr>
<td>Error</td>
<td>111</td>
<td>33705.79847662</td>
<td>303.65584213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>58528.25047762</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEP</td>
<td>49.56128433</td>
<td>1.63245480</td>
<td>279888.08839275</td>
<td>921.73</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA1</td>
<td>3.68246505</td>
<td>0.70731340</td>
<td>8230.66899602</td>
<td>27.11</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA2</td>
<td>7.53215611</td>
<td>1.03058966</td>
<td>16220.54927394</td>
<td>53.42</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

Summary of Stepwise Procedure for Dependent Variable FT

<table>
<thead>
<tr>
<th>Variable Entered Removed</th>
<th>Number Entered</th>
<th>Partial ( R^2 )</th>
<th>Partial ( R^2 )</th>
<th>Model ( C(p) )</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1 PCA2</td>
<td>1</td>
<td>0.7128</td>
<td>0.7128</td>
<td>28.5249</td>
<td>44.3118</td>
<td>0.0001</td>
</tr>
<tr>
<td>Step 2 PCA1</td>
<td>2</td>
<td>0.1702</td>
<td>0.8831</td>
<td>3.3373</td>
<td>27.1053</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

6. Stepwise Procedure for Dependent Variable HITCH

Step 1  Variable PCA1 Entered  \( R^2 = 0.24350987 \)  \( C(p) = 20.66939490 \)

<table>
<thead>
<tr>
<th></th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>1</td>
<td>36491.69374806</td>
<td>36491.69374806</td>
<td>36.05</td>
<td>0.0001</td>
</tr>
<tr>
<td>Error</td>
<td>112</td>
<td>113365.45212020</td>
<td>1012.19153679</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>149857.14586825</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEP</td>
<td>56.17275847</td>
<td>2.97975072</td>
<td>359711.51266408</td>
<td>355.38</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA1</td>
<td>7.75289470</td>
<td>1.29121400</td>
<td>36491.69374806</td>
<td>36.05</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

Step 2  Variable PCA2 Entered  \( R^2 = 0.33284226 \)  \( C(p) = 7.23890947 \)

<table>
<thead>
<tr>
<th></th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>2</td>
<td>49878.79145467</td>
<td>24939.39572734</td>
<td>27.69</td>
<td>0.0001</td>
</tr>
<tr>
<td>Error</td>
<td>111</td>
<td>99978.35441358</td>
<td>900.70589562</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>149857.14586825</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Variable</td>
<td>Parameter Estimate</td>
<td>Standard Error</td>
<td>Type II Sum of Squares</td>
<td>F</td>
<td>Prob&gt;F</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------</td>
<td>---------------</td>
<td>------------------------</td>
<td>---</td>
<td>--------</td>
</tr>
<tr>
<td>INTERCEPT</td>
<td>55.93814230</td>
<td>2.81152434</td>
<td>356545.85381094</td>
<td>395.85</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA1</td>
<td>7.67870831</td>
<td>1.21818309</td>
<td>35787.73477573</td>
<td>39.73</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA2</td>
<td>6.84273546</td>
<td>1.77491695</td>
<td>13387.09770662</td>
<td>14.86</td>
<td>0.0002</td>
</tr>
</tbody>
</table>

Step 3 Variable PCA3 Entered  
R-square = 0.36317211  
C(p) = 4.00000000

<table>
<thead>
<tr>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regression</td>
<td>3</td>
<td>54423.93640984</td>
<td>18141.31213661</td>
<td>20.91</td>
</tr>
<tr>
<td>Error</td>
<td>110</td>
<td>95433.20945842</td>
<td>867.57463144</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
<td>149857.14586825</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Parameter Estimate</th>
<th>Standard Error</th>
<th>Type II Sum of Squares</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERCEPT</td>
<td>55.95323397</td>
<td>2.75933866</td>
<td>356736.22933041</td>
<td>411.19</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA1</td>
<td>7.67995638</td>
<td>1.19556869</td>
<td>35799.36187464</td>
<td>41.26</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA2</td>
<td>6.86196585</td>
<td>1.74198739</td>
<td>13462.13475969</td>
<td>15.52</td>
<td>0.0001</td>
</tr>
<tr>
<td>PCA3</td>
<td>24.43766124</td>
<td>10.67675294</td>
<td>4545.14495516</td>
<td>5.24</td>
<td>0.0240</td>
</tr>
</tbody>
</table>

Summary of Stepwise Procedure for Dependent Variable HTCH

<table>
<thead>
<tr>
<th>Step</th>
<th>Entered</th>
<th>Removed</th>
<th>Number</th>
<th>Partial</th>
<th>Model R**2</th>
<th>R**2</th>
<th>C(p)</th>
<th>F</th>
<th>Prob&gt;F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCA1</td>
<td></td>
<td>1</td>
<td>0.2435</td>
<td>0.2435</td>
<td>20.6694</td>
<td>36.0522</td>
<td>0.0001</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>PCA2</td>
<td></td>
<td>2</td>
<td>0.0893</td>
<td>0.3328</td>
<td>7.2389</td>
<td>14.8629</td>
<td>0.0002</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PCA3</td>
<td></td>
<td>3</td>
<td>0.0303</td>
<td>0.3632</td>
<td>4.0000</td>
<td>5.2389</td>
<td>0.0240</td>
<td></td>
</tr>
</tbody>
</table>