

L A M P I R A N

Lampiran 1. Uraian tentang Pola Pengembangan Perkebunan Kelapa sawit
Berdasarkan Pendekatan Kawasan Industri Masyarakat Perkebunan

Dalam rangka meningkatkan peran serta, efisiensi, produktivitas dan berkelanjutan bidang perkebunan maka pemerintah daerah akan mengembangkan perkebunan berdasarkan pendekatan kawasan industri masyarakat perkebunan (Kimbun). Kawasan ini akan dibangun di setiap lokasi pengembangan dan sentra-sentra produksi yang diselenggarakan melalui pendekatan agribisnis yang utuh di pedesaan dengan azas kebersamaan ekonomi, yaitu melalui upaya pemberdayaan dan peningkatan peran serta pengusaha kecil, menengah dan koperasi.

Langkah implementasi pembangunan kawasan ini adalah dengan mengembangkan pola pengembangan perkebunan yang lebih berdimensi pada penerapan nilai keadilan dan mengutamakan efisiensi, produktivitas dan peran serta masyarakat dalam satu paket kebijakan. Sebagai wadah untuk pemberdayaan masyarakat digunakan Koperasi perkebunan dengan pola pengembangan sesuai Surat Keputusan Menteri Kehutanan dan Perkebunan Nomor: 107/Kpts-II/1999 tanggal 3 Maret 1999, yaitu :

1. Pola Koperasi Usaha Perkebunan

Masyarakat membentuk koperasi perkebunan, membangun kebun dan fasilitas pengolahannya, serta mengembangkan sarana dan prasarana pokok lainnya. Dalam proses pengembangan koperasi ini, masyarakat dapat meminta bantuan pihak ketiga berdasarkan *contract management* (CM). Biaya pembangunan kebun, fasilitas pengolahan, sarana dan prasarana perkebunan serta biaya CM bersumber dari fasilitas kredit lunak jangka panjang.

2. Pola Patungan Koperasi dan Investor

Pola ini merupakan pengembangan dari pola PIR yang ada saat ini dengan menghilangkan pembatas kelembagaan antara plasma dan inti. Sejak awal masyarakat membentuk koperasi dan sebagai suatu unit usaha patungan perkebunan dengan perusahaan perkebunan. Secara keseluruhan komposisi kepemilikan saham koperasi dan perusahaan adalah 65% : 35%.

3. Pola Patungan Investor dan Koperasi

Pola ini mirip dengan Pola II tetapi kontribusi koperasi terbatas pada “in kind contribution” yang disetarakan dengan nilai uang, seperti lahan usaha koperasi (sebagai saham). Secara menyeluruh pangsa koperasi pada tahap awal sekurang-kurangnya 20 persen, selanjutnya secara bertahap meningkat sesuai dengan perkembangan kondisi usahanya.

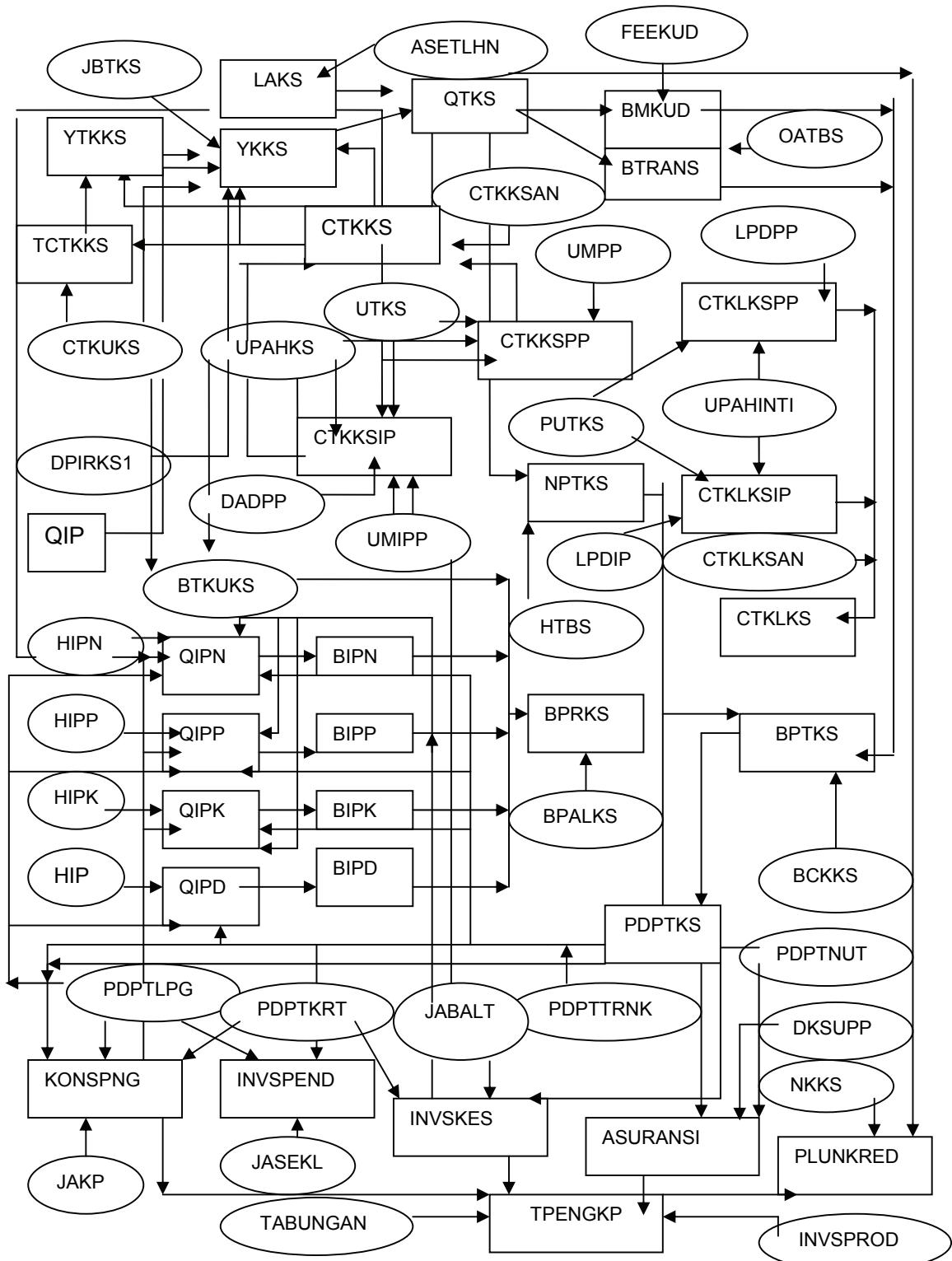
4. Pola BOT

Pola ini terbuka bagi investor termasuk badan usaha milik negara dan milik swasta (BUMN, BUMS), termasuk penanaman modal asing (PMA). Dalam pola ini investor membangun kebun, pabrik dan sarana serta prasarana pendukungnya, termasuk membangun Koperasi Usaha Perkebunan yang akan melanjutkan usaha tersebut. Tahapan serta persyaratan membangun, mengoperasikan dan mentransfer dirancang sesuai dengan karakteristik komoditi perkebunan yang diusahakan serta perkiraan kondisi pasarnya. Kebun dan pabrik ditransfer pada saat koperasi sudah siap dan kondisi kebun serta pabrik masih menguntungkan secara teknis-ekonomis untuk dikelola oleh koperasi.

5. Pola Bank Tabungan Negara

Pola ini mengadopsi dari pola pengembangan perumahan rakyat oleh Bank Tabungan Negara (BTN). Pemerintah bukan hanya menyediakan paket kredit untuk membangun kebun, tetapi juga mengembangkan kelembagaan keuangan perkebunan sebagai lembaga yang membiayai pembangunan kebun atau pabrik yang dilaksanakan oleh “developer”. Dalam hal ini developer dibatasi hanya BUMN atau BUMS yang kemampuan dan keahlian di bidang perkebunan. Kapling kebun yang telah dibangun dapat dimiliki oleh para peminat dalam investasi bentuk kebun. Koperasi dikembangkan untuk mengelola kawasan perkebunan tersebut secara utuh dengan dukungan dana operasi bersumber dari jasa pengelolaan kawasan perkebunan.

Lampiran 2. Diagram Keterkaitan Variabel Model Ekonomi Rumahtangga Petani Plasma Kelapa Sawit



Lampiran 3. Hubungan Fungsional Model Ekonomi Rumahtangga
Petani Plasma Kelapa Sawit

| No | Blok dan Variabel Endogen | Variabel Penjelas |
|---------------------------------------|--|--|
| <u>(I) Blok Produksi Kelapa Sawit</u> | | |
| 1 | Luas Areal KS LAKS = f(TCTKKS, ASETLHN, PDPTKS, PDPTLPG, PDPTNUT, DKSUPP) | (+) (+) (+) (-) (+) (+) |
| 2 | Produktivitas YKKS = f(HTBS, QIP, CTKKS, CTKUKS, JBTKS, YTKKS) | (+) (+) (+) (+) (+) (+) |
| 3 | Produksi Total KS QTKS = LAKS * YKKS | |
| <u>(II). Blok Curahan Kerja</u> | | |
| | Curahan Kerja Suami di KS | |
| 4 | CTKKSP = f(UPAHKS, UPAHINTI, LAKS, UTKS, CTKKSAN, CTKUKS, UMPP, PUTKS, DADPP) | (+) (-) (+) (+) (-) (-) (-) (+) (-) |
| | Curahan Kerja Istri di Kebun KS | |
| 5 | CTKKSP = f(LAKS, UTKS, CTKKSAN, CTKUKS, UMPP, JABALT, PUTKS, DADPP) | (+) (+) (-) (-) (-) (+) (-) |
| | Total Curahan TK Keluarga di Kebun Plasma KS | |
| 6 | CTKKS = CTKKSP + CTKKSP + CTKKSAN | |
| | Total Curahan TK di Kebun Plasma KS | |
| 7 | TCTKKS = CTKKS + CTKUKS | |
| | Produktivitas TK di Kebun KS | |
| 8 | YTKKS = QTKS: TCTKKS | |
| | Curahan Kerja Suami di KS | |
| 9 | CTKLSP = f(UPAHINTI, PDPTNUT, LAKS, TPENGKP, PUTKS, LPDPP) | (+) (+) (+) (+) (+) (+) |
| | Curahan Kerja Istri di KS | |
| 10 | CTKLSP = f(UPAHINTI, PDPTNUT, UPAHKS, LAKS, JABALT, PUTKS, LPDIPP) | (+) (+) (-) (-) (-) (+) (+) |
| | Total Curahan Kerja Keluarga di luar KS | |
| 11 | CTKLKS = CTKLSP + CTKLSP + CTKLKSAN | |

(III). Blok Biaya dan Pendapatan

Penggunaan Pupuk N

$$12 \quad QIPN = f(RHIPNTBS, UPAHKS, LAKS, UTKS, PDPTNUT, PDPTLPG, KONSPNG, INVSKES, DPIRKS_1)$$

$$\quad \quad \quad (-) \quad (+) \quad (+) \quad (+) \quad (+)$$

$$\quad \quad \quad (+) \quad (-) \quad (-) \quad (+)$$

Penggunaan Pupuk P

$$13 \quad QIPP = f(HIPP, UPAHKS, LAKS, UTKS, PDPTNUT, PDPTLPG, KONSPNG, INVSKES, DPIRKS_1)$$

$$\quad \quad \quad (-) \quad (+) \quad (+) \quad (+) \quad (+) \quad (+)$$

$$\quad \quad \quad (-) \quad (-) \quad (+)$$

Penggunaan Pupuk K

$$14 \quad QIPK = f(HIPK, HTBS, UPAHKS, LAKS, PDPTNUT, KONSPNG, INVSKES, DPIRKS_1)$$

$$\quad \quad \quad (-) \quad (+) \quad (+) \quad (+) \quad (+)$$

$$\quad \quad \quad (-) \quad (-) \quad (+)$$

Penggunaan Pupuk Komposit

$$15 \quad QIP = ((QIPN*HIPN) + (QIPP*HIPP)+(QIPK*HIPK)) : (HIPN+HIPP+HIPK)$$

Penggunaan Pestisida

$$16 \quad QIPD = f(HIPD, UPAHKS, LAKS, PDPTNUT, PDPTLPG)$$

$$\quad \quad \quad (-) \quad (+) \quad (+) \quad (+) \quad (+)$$

Biaya Pupuk N, P K

$$17 \quad BIPN = (QIPN*HIPN)$$

$$18 \quad BIPP = (QIPP*HIPP)$$

$$19 \quad BIPK = (QIPK*HIPK)$$

Biaya Pestisida

$$20 \quad BIPD = (QIPD * HIPD)$$

Biaya TK Upahan

$$21 \quad BTKUKS = CTKUKS * UPAHKS$$

Biaya Produksi Kebun Plasma

$$22 \quad BPRKS = BIPN + BIPP + BIPK + BIPD + BTKUKS + BPALKS$$

Nilai Produk Total KS

$$23 \quad NPTKS = QTGS * HTBS$$

Biaya Pasca Panen

$$24 \quad BADMS = 0.05 * NPTKS$$

$$25 \quad BTRANS = OATBS * QTGS$$

$$26 \text{ BMKUD} = \text{FEEKUD} * \text{QTKS}$$

Biaya Total KS

$$27 \text{ BPTKS} = \text{BPRKS} + \text{BADMS} + \text{BTRANS} + \text{BMKUD}$$

Pendapatan Kebun Plasma KS

$$28 \text{ PDPTKS} = \text{NPTKS} - \text{BPENGKS} - \text{BCKKS} - \text{BTRANS} - \text{BMKUD} - \text{BPRKS}$$

Pendapatan dari Luar Kebun KS

$$29 \text{ PDPTLKS} = \text{PDPTRNK} + \text{PDPTKRT} + \text{PDPTTPG} + \text{PDPTNUT}$$

Pendapatan Keluarga

$$30 \text{ PDPTKP} = \text{PDPTKS} + \text{PDPTLKS}$$

(IV) Blok Pengeluaran dan Pelunasan Kredit RT Petani Plasma

Konsumsi Pangan

$$31 \text{ KONSPNG} = f(\text{JAKP}, \text{PDPTKS}, \text{PDPTLPG}, \text{PDPTNUT}, \text{PDPTTRNK}, \text{PDPTKRT}, \text{ASURANSI}, \text{DADPP})$$

$$\quad \quad \quad (+) \quad (+) \quad (+) \quad (+) \quad (+)$$

$$\quad \quad \quad (+) \quad (-) \quad (+)$$

Investasi Pendidikan, Kesehatan dan Asuransi

$$32 \text{ INVSPEND} = f(\text{JASEKL}, \text{PDPTKS}, \text{PDPTLPG}, \text{PDPTNUT}, \text{PDPTTRNK}, \text{INVSPROD}, \text{ASURANSI})$$

$$\quad \quad \quad (+) \quad (+) \quad (+) \quad (+)$$

$$\quad \quad \quad (+) \quad (-) \quad (-)$$

$$33 \text{ INVSKES} = f(\text{JAKP}, \text{JABALT}, \text{PDPTKS}, \text{PDPTKRT})$$

$$\quad \quad \quad (+) \quad (+) \quad (+) \quad (+)$$

$$34 \text{ ASURANSI} = f(\text{PDPTKS}, \text{PDPTLPG}, \text{PDPTNUT}, \text{PDPTKRT}, \text{INVSPEND}, \text{INVSPROD}, \text{BCKKS})$$

$$\quad \quad \quad (+) \quad (+) \quad (+) \quad (+)$$

$$\quad \quad \quad (-) \quad (-) \quad (+)$$

Total Pengeluaran Keluarga

$$35 \text{ TPENGKP} = \text{KONSPNG} + \text{KONSNPG} + \text{INVSPEND} + \text{INVSKES} + \text{INVSPROD} + \text{ASURANSI} + \text{TABUNGAN}$$

Periode Lunas Kredit

$$36 \text{ PLUNKRED} = f(\text{NKKS}, \text{HTBS}, \text{QTKS}, \text{FEEKUD}, \text{TPENGKP}, \text{JRKPKS}, \text{CTKLKS}, \text{DPIRKS}_2)$$

$$\quad \quad \quad (+) \quad (-) \quad (-) \quad (+) \quad (+) \quad (+)$$

$$\quad \quad \quad (-) \quad (+)$$

Lampiran 4. Nama Variabel yang Digunakan dalam Model Ekonomi Rumahtangga Petani Plasma Kelapa Sawit

| No | Variabel | Keterangan | Ukuran |
|----|-----------------------|---|------------|
| 1 | UMPP | Umur suami (petani plasma) | tahun |
| 2 | UMIPP | Umur istri petani plasma | tahun |
| 3 | LPDPP | Lama pendidikan suami | tahun |
| 4 | LPDIP | Lama pendidikan istri | tahun |
| 5 | PUTKS | Pengalaman pada usahatani kelapa sawit | tahun |
| 6 | JAKP | Jumlah anggota keluarga petani plasma | orang/RTPP |
| 7 | JASEKL | Jumlah anggota keluarga yang sekolah | orang/RTPP |
| 8 | JABALT | Jumlah anggota usia di bawah 5 thn | orang/RTPP |
| 9 | DADPP | Asal daerah petani plasma, penduduk lokal = 1, penduduk pendatang = 0 | 1 / 0 |
| 10 | HIPN | Harga input pupuk Urea (N) | Rp/kg |
| 11 | HIPP | Harga input pupuk Posfat (P) | Rp/kg |
| 12 | HIPK | Harga input pupuk Kalium (K) | Rp/kg |
| 13 | HIPD | Harga input pestisida (<i>Round up</i>) | Rp/liter |
| 14 | UPAHKS | Upah di kebun KS Plasma | Rp/HOK |
| 15 | UPAHINTI | Upah di kebun KS Inti | Rp/HOK |
| 16 | DPIRKS _{1,2} | Pola PIR Kelapa sawit DPIRKS ₁ , PIR-Trans =1, lainnya= 0, DPIRKS ₂ , PIR-Sus = 1, lainnya= 0 | 1 / 0 |
| 17 | CTKKSP | Curahan TK suami (petani) di kebun plasma | HOK/thn |
| 18 | CTKKSIP | Curahan TK istri di kebun plasma | HOK/thn |
| 19 | CTKKSAN | Curahan TK anak di kebun plasma | HOK/thn |
| 20 | CTKKS | Curahan TK keluarga di kebun plasma | HOK/thn |
| 21 | CTKUKS | Curahan TK upahan di kebun plasma | HOK/than |
| 22 | TCTKKS | Total Curahan TK di kebun plasma | HOK/thn |
| 23 | CTKLSP | Curahan TK suami di luar kbn plasma | HOK/thn |
| 24 | CTKLSP | Curahan TK istri di luar kebun kelapa sawit | HOK/thn |
| 25 | CTKLKSAN | Curahan TK anak di luar kebun KS | HOK/thn |
| 26 | CTKLKS | Curahan TK keluarga di luar kebun KS | HOK/thn |
| 27 | YTKKS | Produktivitas TK pada kebun KS | kg /HOK |
| 28 | QIPN | Permintaan pupuk N di kebun KS | kg/tahun |
| 29 | QIPP | Permintaan pupuk P di kebun KS | kg/tahun |
| 30 | QIPK | Permintaan pupuk K di kebun KS | kg/tahun |
| 31 | QIP | Permintaan pupuk gabungan | kg/tahun |
| 32 | QIPD | Permintaan pestisida di kebun KS | Itr /tahun |
| 33 | BIPN | Biaya pupuk Nitrogen (N) | Rp000/thn |
| 34 | BIPP | Biaya pupuk Posfat (P) | Rp000/thn |
| 35 | BIPK | Biaya pupuk Kalium (K) | Rp000/thn |
| 36 | BIPD | Biaya input Pestisida | Rp000/thn |
| 37 | BPALKS | Biaya penyusutan alat di kbn KS | Rp000/thn |
| 38 | BTKUKS | Biaya TK upahan di kebun KS | Rp000/thn |
| 39 | BPRKS | Biaya produksi di kebun KS | Rp000/thn |
| 40 | OATBS | Ongkos angkut TBS ke pabrik PKS | Rp/kg |

Lampiran 4. Lanjutan

| No | Variabel | Keterangan | Ukuran |
|----|----------|--|------------|
| 41 | BTRANS | Biaya transportasi TBS ke pabrik PKS Inti | Rp000/thn |
| 42 | FEEKUD | Fee untuk manajemen KUD | Rp/kg |
| 43 | BMKUD | Biaya untuk manajemen KUD | Rp000/thn |
| 44 | LAKS | Luas areal kebun kelapa sawit plasma | ha /RTPP |
| 45 | YKKS | Prokduktivitas kebun kelapa sawit plasma | kg /ha |
| 46 | HTBS | Harga jual TBS plasma | Rp/kg |
| 47 | NPTKS | Nilai penjualan TBS dari kebun plasma | Rp000/thn |
| 48 | BADMS | Biaya administrasi | Rp000/thn |
| 49 | BCKKS | Biaya cicilan kredit kebun plasma | Rp000/thn |
| 50 | BPTKS | Biaya produksi total kelapa sawit | Rp000/thn |
| 51 | PDPTKS | Pendapatan KS dari kebun plasma | Rp000/thn |
| 52 | PDPTLPG | Pendapatan usahatani di lahan pangan | Rp000/thn |
| 53 | PDPTNUT | Pendapatan dari non usahatani | Rp000/thn |
| 54 | PDPTTRNK | Pendapatan usaha ternak | Rp000/thn |
| 55 | PDPTKRT | Pendapatan dari kebun karet | Rp000/thn |
| 56 | PDPTKP | Pendapatan total keluarga petani | Rp000/thn |
| 57 | KONSPNG | Pengeluaran utk konsumsi pangan | Rp000/thn |
| 58 | KONSNPG | Pengeluaran konsumsi non pangan | Rp000/thn |
| 59 | INVSPEND | Pengeluaran investasi pendidikan | Rp000/thn |
| 60 | INVSKES | Pengeluaran investasi kesehatan | Rp000/thn |
| 61 | INVSPROD | Pengeluaran investasi produksi | Rp000/thn |
| 62 | ASURANSI | Pengeluaran untuk asuransi | Rp000/thn |
| 63 | TPENGKP | Total pengeluaran keluarga petani | Rp000/thn |
| 64 | TABUNGAN | Pengeluaran untuk tabungan keluarga | Rp000/thn |
| 65 | NKKS | Nilai pengembalian kredit kelapa sawit | Rp000 /KK |
| 66 | PLUNKRED | Periode pelunasan kredit kelapa sawit | Tahun |
| 67 | UTKS | Umur tanaman kelapa sawit | Tahun |
| 68 | JRKPKS | Jarak kebun ke pabrik PKS | Km |
| 69 | DKSUPP | Usahatani KS sebagai usaha pokok 1= Usahatani KS usaha pokok 0= Usahatani KS bukan usaha pokok | 1/0 |
| 70 | RHIPNTBS | Rasio harga pupuk N terhadap harga TBS | kg/tahun |
| 71 | QTKS | Produksi total kelapa sawit di kebun plasma | ha/RTPP |
| 72 | LALKS | Luas areal selain kebun plasma | |
| 73 | JBTKS | Jumlah pohon KS di kebun plasma | batang/kap |

Keterangan : KS = kelapa sawit ; TBS = Tandan Buah Segar
 TK = Tenaga Kerja ; kap= kapling
 RTPP = Rumah Tangga Petani Plasma
 PKS = Pabrik Kelapa Sawit

Lampiran 5. Gambaran Umum tentang Program Asuransi Iuran Dana Peremajaan Perkebunan Kelapa Sawit

Program asuransi iuran dana peremajaan perkebunan (idapertabun) dikeluarkan tanggal 1 Februari 1995, merupakan jenis asuransi yang dipersiapkan oleh perusahaan asuransi jiwa bersama (AJB) Bumiputra 1912 yang berkantor pusat di Jalan HOS Cokroaminoto lantai 4, No. 85, Jakarta Pusat. Program ini merupakan kerjasama Asuransi Jiwa Bersama Bumiputra dengan Direktorat Jenderal Perkebunan (Ditjenbun) sebagai pengelola pusat perusahaan inti rakyat perkebunan (PIR-Bun) dalam mempersiapkan dana peremajaan tanaman perkebunan petani plasma, termasuk tanaman kelapa sawit peserta pola.

Pertimbangan dibentuknya jenis asuransi yang berorientasi pada masyarakat pedesaan khususnya petani perkebunan adalah pengabdian, tetapi juga memperhatikan norma-norma yang sesuai dengan prinsip usaha, yaitu dengan dasar pertimbangan saling menguntungkan. Program asuransi ini menempatkan petani plasma sebagai subyek asuransi dengan melihat jenis resiko yang akan dihadapi baik sebagai pengusaha di bidang perkebunan dengan skala kecil maupun petani sebagai kepala keluarga. Program ini juga memasukkan faktor resiko, misalnya jika kepala keluarga meninggal dunia, sehingga program ini menangani dana peremajaan sekaligus asuransi jiwa petani.

Pada prinsipnya setelah kebun plasma dikonversi, maka tanggung jawab pengelolaan dan peremajaan tanaman dialihkan kepada petani plasma, akan tetapi hal ini sulit dilakukan oleh petani terutama untuk melakukan peremajaan tanaman jika tidak ada pembinaan dan pengarahan dari pemerintah atau perusahaan Inti. Sebagian petani mempunyai kesanggupan untuk menyisihkan sebagian hasil kebunnya untuk ditabung sebagai persiapan dana peremajaan tanaman, akan tetapi

kenyataannya peremajaan oleh petani plasma sendiri masih sulit dilakukan. Selain itu petani belum terbiasa menabung sendiri dan belum ada bank yang beroperasi di lokasi pemukiman petani.

Untuk menjadi peserta program asuransi Idapertabun, petani harus menyisihkan sebagian penghasilan dari hasil penjualan kelapa sawitnya kepada inti, melalui koperasi setempat. Syarat menjadi peserta adalah umur kepala keluarga petani peserta di wilayah perusahaan inti rakyat perkebunan dengan rumusan bahwa umur ditambah masa kontrak tidak lebih dari 70 tahun dan tidak sedang di rawat di rumah sakit.

Dana peremajaan yang akan diperoleh berkisar rumahtangga petani adalah berkisar Rp 6.00 hingga Rp 18.00 juta tergantung besarnya iuran atau premi yang disetorkan petani kepada pihak asuransi. Jika kepala keluarga meninggal dunia maka ahli waris akan memperoleh santunan kematian sebesar Rp 5.00 juta, setelah itu ahli waris tidak perlu melanjutkan pembayaran iuran asuransi tetapi akan memproleh dana peremajaan tanaman dengan jumlah sesuai dengan nilai kontrak/paket benefit yang disepakati pada waktu mendaftarkan diri menjadi peserta program asuransi idapertabun.

Dalam upaya mengembangkan dan memasyarakatkan program ini, sejak April 1995 telah dibentuk Tim Operasional Program Idapertabun dengan anggota terdiri dari Staf Direktorat Jenderal Perkebunan (Ditjenbun) dan AJB Bumi Putera. Untuk operasional di lapangan dilibatkan beberapa petugas instansi lainnya seperti: Staf *Agricultural Development Officer* (ADO) di wilayah PIR-Bun, koperasi serta Site Manager Perusahaan Inti. Pada dasarnya Tim Operasional bertugas membantu Ditjenbun sebagai penanggung jawab program Idapertabun dalam melakukan penelaahan, evaluasi dan pembinaan pelaksanaan program.

Program ini tidak hanya menjamin peremajaan kebun dan asuransi petani tetapi dapat pula digunakan sebagai jalur pengendalian dan pencegahan timbulnya masalah pembangunan perkebunan pola PIR di lapangan. Sebagai contoh masalah pembangunan perkebunan adalah adanya pengalihan/penjualan kavling kebun serta penjualan hasil kebun petani kepada pihak ketiga yang sangat merugikan semua pihak terkait. Kerugian yang ditimbulkan adalah: (1) bagi pemerintah mengalami kerugian karena tujuan pokok proyek tidak tercapai akibat pengembalian kredit petani tidak lancar, (2) bagi perusahaan inti mengalami kerugian karena pabrik pengolah kelapa sawit (PKS) kekurangan bahan baku, dan (3) bagi petani sendiri, hal ini telah menyimpang dari perjanjiannya sebagai peserta PIR-Bun sehingga tujuan program PIR yaitu meningkatkan kesejahteraan dan kepastian hak milik lahan kebun plasma jika semua hutang petani lunas tidak akan tercapai. Meskipun jumlah petani yang terlibat dalam program asuransi ini masih relatif kecil dibandingkan dengan jumlah petani yang menjadi peserta PIR-Bun, akan tetapi program ini mendapat sambutan positif dari petani plasma peserta PIR dan pihak-pihak terkait lainnya.

Lampiran 6. Pembagian Tugas Peserta Proyek Perusahaan Inti Rakyat Kelapa Sawit Berdasarkan Tahap Pembagunan

BENTUK LANSCAPE

Lampiran 6. Lanjutan

BENTUK LANSCAPE

Lampiran 7. Kewajiban dan Hak Peserta Proyek Perusahaan Inti Rakyat
Kelapa Sawit

BENTUK LANSCAPE

Lampiran 7. Lanjutan

BENTUK LANSCAPE

Lampiran 8. Isi Surat Keputusan Menteri Kehutanan dan Perkebunan Tahun 1998
Tentang Harga Pembelian Tandan Buah Segar Kelapa Sawit dari
Kebun Plasma

Umum

1. Indeks "k" adalah indeks proporsi yang dinyatakan dalam persentase (%) yang menunjukkan bagian yang diterima oleh petani.
2. Rendemen minyak sawit kasar (Rcpo) dan inti sawit (Ris) adalah berat minyak sawit kasar dan inti sawit yang dihasilkan pabrik dibagi dengan berat TBS yang diolah dan dikalikan dengan 100 persen.
3. Mutu panen TBS adalah hasil penilaian terhadap kematangan panen, keadaan fraksi buah, buah menginap atau tidak, gagang panjang atau pendek serta jumlah dan mutu brondolan yang diserahkan.
4. Matang panen untuk tandan yang boleh dipotong adalah apabila ada brondolan di piringan sebanyak satu butir lepas per kg TBS.
5. Buah menginap ialah buah yang diserahkan pada pabrik setelah lewat hari panen buah yang bersangkutan (lebih dari 24 jam sejak panen).
6. Gagang panjang adalah gagang TBS yang panjangnya lebih dari 2.5 (dua setengah) cm diukur dari tandan dan potongan huruf "V".

Tata Cara Panen

1. TBS yang dikirim ke pabrik beratnya minimal tiga kilogram per tandan.
2. Rotasi panen dilakukan sekali dalam tujuh hari dan pada keadaan tertentu disesuaikan dengan kenyataan potensi produksi.
3. Brondolan yang dikirim ke pabrik harus bersih, tidak bercampur tanah, pasir dan sampah lainnya.
4. Brondolan yang dikumpulkan dari piringan dimasukkan dalam karung dan dikirim ke pabrik bersama-sama dengan tandan.
5. TBS yang dipanen harus dikirim ke pabrik pada hari itu juga (tidak lebih dari 24 jam sejak panen).

Sortasi TBS

1. Sortasi mutu panen TBS di pabrik dilakukan oleh karyawan pabrik bersama wakil petani/kelembagaan petani.
2. Penilaian mutu panen TBS yang masuk ke pabrik diberlakukan bagi seluruh TBS baik yang berasal dari perusahaan, petani/kelembagaan petani maupun dari kebun lain.
3. Sortasi TBS dilakukan secara acak, minimal satu truk dari setiap bagian kebun (afdeling) atau satuan pemukiman. TBS dalam truk yang disortasi, dibongkar dan dituang ke lantai.
4. Hasil disortasi di pabrik disampaikan oleh perusahaan kepada petani melalui kelembagaan petani.
5. TBS yang diterima di pabrik harus memenuhi persyaratan sebagai berikut:
 1. jumlah brondolan sekurang-kurangnya 12.5 % dari berat keseluruhan;
 2. tandan terdiri dari buah mentah (0%), buah matang (minimal 85%) dan buah lewat matang (maksimal 5%);
 3. tandan tidak boleh bergagang panjang;
 4. tidak terdapat tandan kosong;
 5. brondolan segar dalam karung harus bebas dari sampah, tanah, pasir atau benda lainnya.

Pengangkutan TBS

1. Pengangkut TBS bertanggung jawab mengangkut TBS dari TPH sampai ke pabrik dan tidak diperkenankan tertinggal dalam sarana pengangkutan.
2. Kelompok tani atau koperasi mempersiapkan sarana angkutan TBS yang sebanding dengan berat TBS yang akan dipanen untuk menghindari terjadinya TBS menginap.
3. Sarana angkutan TBS diwajibkan menggunakan jaring penutup untuk menghindarkan jatuhnya TBS.

Penetapan Berat TBS

Penimbangan TBS dilakukan di pabrik dengan timbangan yang telah diterima oleh instansi berwenang yaitu Badan Metrologi.

Sanksi

1. Sanksi diberlakukan bagi seluruh TBS yang diolah di pabrik sebagai berikut:
 1. Buah mentah (BM) didenda sebesar $50 \% \times BM \times$ berat TBS yang diterima;
 2. buah lewat matang (BLM) didenda sebesar $25 \% \times (BLM - 5 \%) \times$ berat TBS yang diterima;
 3. tandan kosong (TK) didenda sebesar $100 \% \times TK \times$ berat TBS yang diterima;
 4. buah gagang panjang (BG) didenda sebesar $1\% \times BT \times$ berat TBS yang diterima;
 5. brondolan yang dikirim diterima lebih kecil dari 12.5% didenda sebesar $30 \% \times (12.5 \% - X) \times$ berat TBS diterima;
 6. brondolan yang diterima harus bersih, jika diterima kotor didenda sebesar $2 \times$ berat kotor;
 7. TBS yang dikirim ke pabrik beratnya minimal 3 kilogram per tandan, jika kurang didenda sebear $70 \% \times$ berat TBS yang diterima.
2. Pengaturan lebih lanjut dari pelaksanaan sanksi dan atau insentif tersebut diserahkan kepada perusahaan dan petani/kelembagaan petani

Insentif

Jika buah yang dikirim baik maka kepada yang bersangkutan diberi insentif sebesar 3% dari TBS yang diterima.

Tata Cara Pembelian dan Pembayaran

1. Petani menyerahkan TBS kepada perusahaan melalui petani/kelembagaan petani sesuai dengan perjanjian.
2. Penimbangan TBS di pabrik dilakukan oleh perusahaan dan disaksikan oleh petani/kelembangan petani atau yang mewakili.

3. Kelembagaan petani atau yang mewakili mencatat besarnya penyetoran hasil TBS masing-masing anggotanya berdasarkan petunjuk perusahaan dan tembusannya disampaikan kepada perusahaan.
4. Perusahaan yang belum mempunyai pabrik dapat mengolahkan TBS kepada pabrik pengolahan terdekat. Untuk pengembangan perkebunan pola PIR, biaya angkut TBS yang menjadi beban petani hanya sampai dengan emplasemen kantor kebun/perusahaan.
5. Hasil pembelian TBS petani dibayarkan oleh perusahaan kepada petani setelah dikurangi kewajiban-kewajiban petani sesuai dengan ketentuan dan dilakukan satu kali sebulan dan berdasarkan kesepakatan bersama antara petani/kelembagaan petani dengan perusahaan.

Cara Perhitungan Besarnya Indeks “K”

1. Penetapan Indeks “K” dilakukan berdasarkan harga penjualan, biaya pengolahan dan pemasaran minyak sawit kasar dan inti sawit serta biaya penyusutan
2. Komponen Biaya pengolahan dan pemasaran minyak sawit kasar dan inti sawit
3. Besarnya biaya penyusutan dihitung dengan menggunakan metode penyusutan satuan hasil produksi. Berdasarkan metode ini besarnya biaya penyusutan diperoleh melalui cara membagi harga perolehan pabrik dikurangi nilai sisa dengan perkiraan jumlah produksi:

$$\text{Biaya Penyusutan} = \frac{\text{Harga Perolehan Pabrik} - \text{Nilai Sisa}}{\text{Perkiraan Jumlah Produksi}}$$

Dengan pengertian:

Harga perolehan pabrik dihitung berdasarkan seluruh biaya pembangunan pabrik mulai dari harga beli mesin dan peralatan, biaya pemasangan dan biaya uji coba serta biaya bangunan.

Nilai sisa dihitung berdasarkan harga pabrik setelah melewati umur ekonomisnya dan besarnya sangat tergantung kepada kondisi masing-masing pabrik, tetapi nilai sisa dinilai minimal 5 % dari harga perolehan pabrik.

Perkiraan jumlah produksi dihitung berdasarkan kapasitas pabrik selama umur ekonomis dimana untuk mesin dan peralatan serta bangunan dihitung selama 15 tahun.

Perhitungan Besarnya Indeks “K”, Besarnya Indeks “K” dihitung dengan rumus sebagai berikut:

H tbs

$$K = \frac{H_{tbs}}{(H_{cpo} \times R_{cpo}) + (H_i \times R_i)} \times 100\%$$

Dengan pengertian:

H_{tbs} = nilai TBS di pabrik

H_{cpo} = nilai realisasi rata-rata tertimbang penjualan ekspor dan lokal minyak sawit kasar (Harga FOB bersih).

H_i = nilai realisasi rata-rata tertimbang penjualan ekspor dan lokal inti sawit

R_{cpo} = rendemen minyak sawit kasar

R_i = rendemen inti sawit

Besarnya Rendemen Minyak dan Inti Sawit TBS Produksi Petani

Besarnya Rendemen minyak sawit dan inti sawit TBS produksi petani ditetapkan berdasarkan kesepakatan antara perusahaan dengan petani/ kelembagaan petani yang dikoordinasikan oleh tim penetapan harga pembelian TBS dengan alternatif sebagai berikut:

Berdasarkan rendemen realisasi yang dicapai pabrik (aktual) dengan rumus:

Berat CPO yang dihasilkan

$$R_{cpo} = \frac{\text{Berat CPO yang dihasilkan}}{\text{Berat TBS yang diolah}} \times 100\%$$

Berat Inti Sawit yang dihasilkan

$$R_i = \frac{\text{Berat Inti Sawit yang dihasilkan}}{\text{Berat TBS yang diolah}} \times 100\%$$

Berdasarkan rendemen realisasi yang berasal dari TBS dengan umur tanaman berbeda dan kondisi masing-masing wilayah seperti Tabel Besarnya Rendemen Minyak dan Inti Sawit Tandan Buah Segar (TBS) Produksi Petani.

Sumber: Keputusan Menhutbun No: 627/Kpts-II/98, 11 September 1998, Jakarta.

Lampiran 9. Harga Tandan Buah Segar Kelapa Sawit Berdasarkan Umur Tanaman untuk Bulan Januari – September Tahun 2000

BENTUK LANSCAPE

Lampiran 10. Program Komputer Estimasi Model Ekonomi Rumahtangga Petani
 Plasma Kelapa Sawit Menggunakan SAS/ETS Versi 6.12 Prosedur
 SYSLIN Metode 2SLS

```

PROC ACCESS DBMS=EXCEL;
PROC ACCESS DBMS=EXCEL;
CREATE WORK._IMEX_.ACCESS;
PATH='C:\Disertasi\Disertasi mama\Data-newPIR.xls';
GETNAMES YES;
SCANTYPE=YES;
CREATE WORK._IMEX_.VIEW;
SELECT ALL;
DATA WORK.analisis;
SET WORK._IMEX_;
RUN;
Data laila;
set analisis;
BIPN = (QIPN*HIPN)/1000;
BIPP = (QIPP*HIPP)/1000;
BIPK = (QIPK*HIPK)/1000;
BIPD = (QIPD*HIPD)/1000;
BTUKKS = (CTKUKS * UPAHKS)/1000;
BPRKS = BIPN + BIPP + BIPK + BIPD + BTUKKS + BPALKS;
QTKS = LAKS*YKKS;
BTRANS = (OATBS*QTKS)/1000;
BMKUD = (FEEKUD*QTKS)/1000;
CTKKS = CTKKSP + CTKKSIP + CTKKSAN;
CTKLKS = CTKLKSPP + CTKLKSIP + CTKLKSAN;
TCTKKS = CTKKS + CTKUKS ;
YTKKS = QTKS/TCTKKS ;
NPTKS = (QTKS * HTBS)/1000;
BADMS = 0.05*NPTKS;
PDPTKS = NPTKS - BCKKS - BTRANS - BMKUD - BADMS - BPRKS;
PDPTKP = PDPTKS + PDPTLPG + PDPTNUT + PDPTTRNK + PDPTKRT;
TPENGKP = KONSPNG + KONSNPNG +INVSPEND +INVSKE +INVSProd + ASURANSI+TABUNGAN;
QIP = (QIPN*HIPN + QIPP*HIPP + QIPK*HIPK)/(HIPN+HIPP+HIPK);
RHIPNTBS = HIPN/HTBS;
RUN;

PROC SYSLIN 2SLS DATA=LAILA OUTEST=HASIL;

ENDOGENOUS LAKS YKKS QTKS CTKKSP CTKKSIP CTKKS TCTKKS CTKLKSPP
CTKLKSIP CTKLKS YTKKS QIPN BIPN QIPP BIPP QIPK BIPK
QIPD BIPD QIP BTRANS BMKUD BPRKS NPTKS BADMS PDPTKS
PDPTKP KONSPNG INVSPEND INVSKE ASURANSI
TPENGKP PLUNKRED;

INSTRUMENTS UMPP UMPIPP LPDPP LPDIAPP PUTKS JAKP JASEKL JABALT
UTKS JBTKS JRKPKS ASETLHN LALKS HTBS
CTKKSAN CTKLKSAN CTKUKS UPAHKS UPAHINTI FEEKUD
RHIPNTBS HIPP HIPK HIPD BPALKS BCKKS BTUKKS
KONSNPNG INVSPProd TABUNGAN NKKS PDPTLPG PDPTNUT
PDPTTRNK PDPTKRT DADPP DKSUPP DPIRKS1 DPIRKS2 ;

```

Lampiran 10. Lanjutan

```

Model LAKS      = TCTKKS ASETLHN PDPTKS PDPTLPG PDPTNUT DKSUPP/NOINT ;
Model YKKS      = HTBS QIP CTKKS CTKUKS JBTKS YTAKKS /NOINT ;
Identity QTAKS = QTAKS;
Model CTKKSPP   = UPAHKS UPAHINTI LAKS UTAKS CTKKSAN CTKUKS UMPP PUTKS DADPP/NOINT;
Model CTKKSIP   = LAKS UTAKS CTKKSAN CTKUKS JABALT UMIPP PUTKS DADPP/NOINT;
Identity CTKKS  = CTKKSPP + CTKKSIP + CTKKSAN;
Identity TCTKKS = CTKKS + CTKUKS;
Model CTKLKSP   = UPAHINTI PDPTNUT LALKS TPENGKP PUTKS LPDPP /NOINT;
Model CTKLKSP   = UPAHINTI PDPTNUT UPAHKS LAKS JABALT PUTKS LPDIPP/NOINT;
Identity CTKLKS = CTKLKSP + CTKLKSP + CTKLKSAN;
Identity YTAKS  = YTAKS;
Model QIPN      = RHIPNTBS UPAHKS LAKS UTAKS PDPTNUT PDPTLPG KONSPNG INVSKES
                  DPIRKS1/NOINT;
Identity BIPN    = BIPN;
Model QIPP      = HIPP UPAHKS LAKS UTAKS PDPTNUT PDPTLPG KONSPNG INVSKES
                  DPIRKS1/NOINT;
Identity BIPP    = BIPP;
Model QIPK      = HIPK UPAHKS HTBS LAKS PDPTNUT KONSPNG INVSKES DPIRKS1/NOINT;
Identity BIPK    = BIPK;
Model QIPD      = HIPD UPAHKS LAKS UTAKS PDPTNUT PDPTLPG /NOINT;
Identity BIPD    = BIPD;
Identity QIP     = QIP;
Identity BTRANS  = BTRANS;
Identity BMKUD   = BMKUD;
Identity BPRKS   = BIPN + BIPP + BIPK + BTAKS + BIPD + BPALKS;
Identity NPTAKS  = NPTAKS;
Identity BADMS   = BADMS;
Identity PDPTKS  = NPTAKS - BCKKS - BTRANS - BMKUD - BADMS - BPRKS;
Identity PDPTKP  = PDPTKS + PDPTLPG + PDPTNUT + PDPTTRNK + PDPTKRT;
Model KONSPNG   = JAKP PDPTKS PDPTLPG PDPTNUT PDPTTRNK PDPTKRT ASURANSI DADPP/;
Model INVSPEND  = JASEKL PDPTKS PDPTLPG PDPTNUT PDPTTRNK INVSPROD ASURANSI/NOINT;
Model INVSKES   = JAKP JABALT PDPTKS PDPTKRT /NOINT DW;
Model ASURANSI  = NPTAKS PDPTLPG PDPTNUT PDPTKRT INVSPEND INVSPROD BCKKS/NOINT;
Identity TPENGKP = KONSPNG + KONSNG + INVSPEND + INVSKES + INVSPROD + ASURANSI+
                  TABUNGAN;
Model PLUNKRED  = NKKS QTAKS HTBS FEEKUD TPENGKP JRKPKS CTKLKS DPIRKS2/ NOINT;
RUN;

```

Lampiran 11. Hasil Estimasi Model Ekonomi Rumahtangga Petani Plasma Kelapa Sawit Menggunakan SAS/ETS Versi 6.12 Prosedur SYSLIN Metode 2SLS

| SYSLIN Procedure | | | | | | |
|-------------------------------------|----------|--------------------|----------------|-----------------------|-----------|--|
| Two-Stage Least Squares Estimation | | | | | | |
| Model: LAKS | | | | | | |
| Dependent variable: LAKS LAKS | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F Value | Prob>F | |
| Model | 6 | 2133.09106 | 355.51518 | 374.920 | 0.0001 | |
| Error | 343 | 325.24724 | 0.94824 | | | |
| U Total | 349 | 2534.00000 | | | | |
| | Root MSE | 0.97378 | R-Square | 0.8677 | | |
| | Dep Mean | 2.40115 | Adj R-SQ | 0.8654 | | |
| | C.V. | 40.55470 | | | | |
| Parameter Estimates | | | | | | |
| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T | |
| TCTKKS | 1 | 0.012655 | 0.001354 | 9.348 | 0.0001 | |
| ASETLNH | 1 | 0.000059205 | 0.000012920 | 4.582 | 0.0001 | |
| PDPTKS | 1 | 0.000080672 | 0.000011867 | 6.798 | 0.0001 | |
| PDPTLPG | 1 | -0.000023513 | 0.000012002 | -1.959 | 0.0509 | |
| PDPTNUT | 1 | 0.000049262 | 0.000014655 | 3.361 | 0.0009 | |
| DKSUPP | 1 | 0.907658 | 0.111652 | 8.129 | 0.0001 | |
| Model: YKKS | | | | | | |
| Dependent variable: YKKS YKKS | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F Value | Prob>F | |
| Model | 6 | 50907417875 | 8484569645.9 | 637.378 | 0.0001 | |
| Error | 343 | 4565908358.6 | 13311686.177 | | | |
| U Total | 349 | 55325845000 | | | | |
| | Root MSE | 3648.51835 | R-Square | 0.9177 | | |
| | Dep Mean | 11688.53868 | Adj R-SQ | 0.9163 | | |
| | C.V. | 31.21450 | | | | |
| Parameter Estimates | | | | | | |
| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T | |
| HTBS | 1 | 14.468862 | 3.833788 | 3.774 | 0.0002 | |
| QIP | 1 | 6.065497 | 2.100898 | 2.887 | 0.0041 | |
| CTKKS | 1 | 12.762090 | 10.978308 | 1.162 | 0.2458 | |
| CTKUKS | 1 | 15.393833 | 7.731439 | 1.991 | 0.0473 | |
| JBTKS | 1 | 1.221939 | 6.028560 | 0.203 | 0.8395 | |
| YTKKS | 1 | 4.938497 | 0.664395 | 7.433 | 0.0001 | |
| Model: CTKKSPP | | | | | | |
| Dependent variable: CTKKSPP CTKKSPP | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F Value | Prob>F | |
| Model | 9 | 312860.14857 | 34762.23873 | 160.520 | 0.0001 | |
| Error | 340 | 73630.49035 | 216.56027 | | | |
| U Total | 349 | 387721.00000 | | | | |
| | Root MSE | 14.71599 | R-Square | 0.8095 | | |

| | | | | | |
|---------------------|----|--------------------|----------------|-----------------------|-----------|
| | | Dep Mean | 28.65043 | Adj R-SQ | 0.8044 |
| | | C.V. | 51.36393 | | |
| Parameter Estimates | | | | | |
| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
| UPAHKS | 1 | 0.000659 | 0.000142 | 4.651 | 0.0001 |
| UPAHINTI | 1 | -0.000497 | 0.000296 | -1.678 | 0.0942 |
| LAKS | 1 | 2.237535 | 1.178240 | 1.899 | 0.0584 |
| UTKS | 1 | 1.845044 | 0.332343 | 5.552 | 0.0001 |
| CTKKSAN | 1 | -0.012351 | 0.074596 | -0.166 | 0.8686 |
| CTKUKS | 1 | -0.099424 | 0.038265 | -2.598 | 0.0098 |
| UMPP | 1 | -0.063077 | 0.070727 | -0.892 | 0.3731 |
| PUTKS | 1 | 0.122672 | 0.386128 | 0.318 | 0.7509 |
| DADPP | 1 | -1.324501 | 2.373580 | -0.558 | 0.5772 |

Model: CTKKSIP

Dependent variable: CTKKSIP CTKKSIP

Analysis of Variance

| Source | DF | Sum of Squares | | F Value | Prob>F |
|---------|----------|----------------|-------------|---------|--------|
| | | Mean Square | R-Square | | |
| Model | 8 | 173498.54756 | 21687.31844 | 141.044 | 0.0001 |
| Error | 341 | 52432.98279 | 153.76241 | | |
| U Total | 349 | 225805.00000 | | | |
| | Root MSE | 12.40010 | R-Square | 0.7679 | |
| | Dep Mean | 20.14040 | Adj R-SQ | 0.7625 | |
| | C.V. | 61.56827 | | | |

Parameter Estimates

| | | | | | |
|----------|----|--------------------|----------------|-----------------------|-----------|
| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
| LAKS | 1 | 2.010297 | 0.807702 | 2.489 | 0.0133 |
| UTKS | 1 | 1.486234 | 0.267805 | 5.550 | 0.0001 |
| CTKKSAN | 1 | -0.010353 | 0.062627 | -0.165 | 0.8688 |
| CTKUKS | 1 | -0.063286 | 0.029913 | -2.116 | 0.0351 |
| JABALT | 1 | -3.251284 | 1.287763 | -2.525 | 0.0120 |
| UMIPP | 1 | -0.156511 | 0.054171 | -2.889 | 0.0041 |
| PUTKS | 1 | 0.588503 | 0.301717 | 1.951 | 0.0519 |
| DADPP | 1 | -4.328727 | 1.985299 | -2.180 | 0.0299 |

Model: CTKLKSPP

Dependent variable: CTKLKSPP CTKLKSPP

Analysis of Variance

| Source | DF | Sum of Squares | | F Value | Prob>F |
|---------|----------|----------------|--------------|---------|--------|
| | | Mean Square | R-Square | | |
| Model | 6 | 6680381.0679 | 1113396.8447 | 102.505 | 0.0001 |
| Error | 343 | 3725628.8862 | 10861.89180 | | |
| U Total | 349 | 10434029.000 | | | |
| | Root MSE | 104.22040 | R-Square | 0.6420 | |
| | Dep Mean | 137.54441 | Adj R-SQ | 0.6357 | |
| | C.V. | 75.77218 | | | |

Parameter Estimates

| | | | | | |
|----------|----|--------------------|----------------|-----------------------|-----------|
| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
| UPAHINTI | 1 | 0.005079 | 0.001449 | 3.505 | 0.0005 |
| PDPTNUT | 1 | 0.002356 | 0.001680 | 1.402 | 0.1617 |
| LALKS | 1 | 3.286873 | 4.944745 | 0.665 | 0.5067 |
| TPENGKP | 1 | 0.001951 | 0.001340 | 1.456 | 0.1462 |
| PUTKS | 1 | 4.676081 | 1.318409 | 3.547 | 0.0004 |

| | | | | | |
|--|-----|-------------------|-------------------|--------------------------|-----------|
| LPDPP | 1 | 1.096507 | 2.386268 | 0.460 | 0.6462 |
| Model: CTKLKSIP | | | | | |
| Dependent variable: CTKLKSIP CTKLKSIP | | | | | |
| | | | | | |
| Analysis of Variance | | | | | |
| | | Sum of Squares | Mean Square | F Value | Prob>F |
| Source | DF | | | | |
| Model | 7 | 3529468.5282 | 504209.78974 | 65.283 | 0.0001 |
| Error | 342 | 2641412.2453 | 7723.42762 | | |
| U Total | 349 | 6156849.0000 | | | |
| | | Root MSE | 87.88303 | R-Square | 0.5720 |
| | | Dep Mean | 92.94269 | Adj R-SQ | 0.5632 |
| | | C.V. | 94.55615 | | |
| Parameter Estimates | | | | | |
| | | Parameter | Standard Error | T for H0: Parameter=0 | Prob > T |
| Variable | DF | Estimate | | | |
| UPAHINTI | 1 | 0.001102 | 0.001700 | 0.648 | 0.5174 |
| PDPTNUT | 1 | 0.003748 | 0.001424 | 2.632 | 0.0089 |
| UPAHKS | 1 | -0.001287 | 0.000834 | -1.544 | 0.1236 |
| LAKS | 1 | -5.065189 | 5.639081 | -0.898 | 0.3697 |
| JABALT | 1 | -15.513576 | 9.381297 | -1.654 | 0.0991 |
| PUTKS | 1 | 6.974456 | 1.020426 | 6.835 | 0.0001 |
| LPDIPP | 1 | 7.906389 | 2.394490 | 3.302 | 0.0011 |
| Model: QIPN | | | | | |
| Dependent variable: QIPN QIPN | | | | | |
| | | | | | |
| Analysis of Variance | | | | | |
| | | Sum of Squares | Mean Square | F Value | Prob>F |
| Source | DF | | | | |
| Model | 9 | 38997189.783 | 4333021.0870 | 277.912 | 0.0001 |
| Error | 340 | 5301048.8026 | 15591.32001 | | |
| U Total | 349 | 46387500.000 | | | |
| | | Root MSE | 124.86521 | R-Square | 0.8803 |
| | | Dep Mean | 321.06017 | Adj R-SQ | 0.8772 |
| | | C.V. | 38.89153 | | |
| Parameter Estimates | | | | | |
| | | Parameter | Standard Error | T for H0: Parameter=0 | Prob > T |
| Variable | DF | Estimate | | | |
| RHIPNTBS | 1 | -11.081188 | 13.679020 | -0.810 | 0.4185 |
| UPAHKS | 1 | 0.008232 | 0.001403 | 5.870 | 0.0001 |
| LAKS | 1 | 90.350345 | 8.637093 | 10.461 | 0.0001 |
| UTKS | 1 | 6.768053 | 1.997859 | 3.388 | 0.0008 |
| PDPTNUT | 1 | 0.001680 | 0.002138 | 0.786 | 0.4325 |
| PDPTLPG | 1 | 0.001483 | 0.001851 | 0.801 | 0.4238 |
| KONSPNG | 1 | -0.023723 | 0.009926 | -2.390 | 0.0174 |
| INVSKES | 1 | -0.072343 | 0.049523 | -1.461 | 0.1450 |
| DPIRKS1 | 1 | 98.095438 | 17.859491 | 5.493 | 0.0001 |
| Model: QIPP | | | | | |
| Dependent variable: QIPP QIPP | | | | | |
| | | | | | |
| Analysis of Variance | | | | | |
| | | Sum of Squares | Mean Square | F Value | Prob>F |
| Source | DF | | | | |
| Model | 9 | 39315272.838 | 4368363.6487 | 277.396 | 0.0001 |
| Error | 340 | 5354228.9087 | 15747.73208 | | |
| U Total | 349 | 46692500.000 | | | |
| | | Root MSE | 125.48997 | R-Square | 0.8801 |
| | | Dep Mean | 321.91977 | Adj R-SQ | 0.8770 |

C.V. 38.98175

NOTE: The NOINT option changes the definition of the R-Square statistic to:
1 - (Residual Sum of Squares/Uncorrected Total Sum of Squares).

Parameter Estimates

| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
|----------|----|--------------------|----------------|-----------------------|-----------|
| HIPP | 1 | -0.010178 | 0.030995 | -0.328 | 0.7428 |
| UPAHKS | 1 | 0.008482 | 0.001734 | 4.890 | 0.0001 |
| LAKS | 1 | 87.953180 | 8.674077 | 10.140 | 0.0001 |
| UTKS | 1 | 5.786690 | 1.744816 | 3.317 | 0.0010 |
| PDPTNUT | 1 | 0.001235 | 0.002137 | 0.578 | 0.5636 |
| PDPTLPG | 1 | 0.001567 | 0.001831 | 0.856 | 0.3927 |
| KONSPNG | 1 | -0.025730 | 0.009661 | -2.663 | 0.0081 |
| INVSKES | 1 | -0.067316 | 0.052867 | -1.273 | 0.2038 |
| DPIRKS1 | 1 | 103.947562 | 17.006956 | 6.112 | 0.0001 |

Model: QIPK

Dependent variable: QIPK QIPK

Analysis of Variance

| Source | DF | Sum of Squares | | F Value | Prob>F |
|---------|----------|----------------|--------------|---------|--------|
| | | Mean Square | | | |
| Model | 8 | 39901430.012 | 4987678.7515 | 285.561 | 0.0001 |
| Error | 341 | 5955993.9742 | 17466.25799 | | |
| U Total | 349 | 48006875.000 | | | |
| | Root MSE | 132.15997 | R-Square | 0.8701 | |
| | Dep Mean | 320.84527 | Adj R-SQ | 0.8671 | |
| | C.V. | 41.19119 | | | |

NOTE: The NOINT option changes the definition of the R-Square statistic to:

1 - (Residual Sum of Squares/Uncorrected Total Sum of Squares).

Parameter Estimates

| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
|----------|----|--------------------|----------------|-----------------------|-----------|
| HIPK | 1 | -0.093712 | 0.022839 | -4.103 | 0.0001 |
| UPAHKS | 1 | 0.008385 | 0.001399 | 5.992 | 0.0001 |
| HTBS | 1 | 0.288665 | 0.128647 | 2.244 | 0.0255 |
| LAKS | 1 | 98.632993 | 9.199614 | 10.721 | 0.0001 |
| PDPTNUT | 1 | 0.001850 | 0.002240 | 0.826 | 0.4095 |
| KONSPNG | 1 | -0.004330 | 0.006838 | -0.633 | 0.5270 |
| INVSKES | 1 | -0.080489 | 0.052119 | -1.544 | 0.1234 |
| DPIRKS1 | 1 | 115.453501 | 17.523346 | 6.589 | 0.0001 |

Model: QIPD

Dependent variable: QIPD QIPD

Analysis of Variance

| Source | DF | Sum of Squares | | F Value | Prob>F |
|---------|----------|----------------|------------|---------|--------|
| | | Mean Square | | | |
| Model | 6 | 11652.39897 | 1942.06650 | 189.704 | 0.0001 |
| Error | 343 | 3511.41332 | 10.23736 | | |
| U Total | 349 | 16600.25000 | | | |
| | Root MSE | 3.19959 | R-Square | 0.7684 | |
| | Dep Mean | 5.38825 | Adj R-SQ | 0.7644 | |
| | C.V. | 59.38079 | | | |

Parameter Estimates

| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
|----------|----|--------------------|----------------|-----------------------|-----------|
| HIPD | 1 | -0.000038868 | 0.000035026 | -1.110 | 0.2679 |
| UPAHKS | 1 | 0.000028634 | 0.000033557 | 0.853 | 0.3941 |

| | | | | | |
|---------|---|-------------|-------------|--------|--------|
| LAKS | 1 | 2.359321 | 0.184783 | 12.768 | 0.0001 |
| UTKS | 1 | 0.048104 | 0.068500 | 0.702 | 0.4830 |
| PDPTNUT | 1 | 0.000085391 | 0.000050211 | 1.701 | 0.0899 |
| PDPTLPG | 1 | 0.000033209 | 0.000039511 | 0.841 | 0.4012 |

Model: KONSPNG

Dependent variable: KONSPNG KONSPNG

Analysis of Variance

| Source | DF | Sum of Squares | Mean Square | F Value | Prob>F |
|---------|-----|----------------|--------------|---------|--------|
| Model | 8 | 230827105.92 | 28853388.239 | 17.297 | 0.0001 |
| Error | 340 | 567157893.71 | 1668111.4521 | | |
| C Total | 348 | 795741574.12 | | | |

| | | | |
|----------|------------|----------|--------|
| Root MSE | 1291.55389 | R-Square | 0.2893 |
| Dep Mean | 3815.14040 | Adj R-SQ | 0.2725 |
| C.V. | 33.85338 | | |

Parameter Estimates

| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
|----------|----|--------------------|----------------|-----------------------|-----------|
| INTERCEP | 1 | 1846.676358 | 290.167517 | 6.364 | 0.0001 |
| JAKP | 1 | 357.576363 | 54.331509 | 6.581 | 0.0001 |
| PDPTKS | 1 | 0.027399 | 0.022504 | 1.218 | 0.2242 |
| PDPTLPG | 1 | 0.073536 | 0.017077 | 4.306 | 0.0001 |
| PDPTNUT | 1 | 0.012044 | 0.021009 | 0.573 | 0.5668 |
| PDPTTRNK | 1 | 0.026828 | 0.070404 | 0.381 | 0.7034 |
| PDPTKRT | 1 | 0.031345 | 0.005645 | 5.553 | 0.0001 |
| ASURANSI | 1 | -0.053203 | 0.094688 | -0.562 | 0.5746 |
| DADPP | 1 | 154.057719 | 198.838184 | 0.775 | 0.4390 |

Model: INVSPEND

Dependent variable: INVSPEND INVSPEND

Analysis of Variance

| Source | DF | Sum of Squares | Mean Square | F Value | Prob>F |
|---------|-----|----------------|--------------|---------|--------|
| Model | 7 | 505051369.77 | 72150195.681 | 29.462 | 0.0001 |
| Error | 342 | 837518121.19 | 2448883.3953 | | |
| U Total | 349 | 1351198000.0 | | | |

| | | | |
|----------|------------|----------|--------|
| Root MSE | 1564.89086 | R-Square | 0.3762 |
| Dep Mean | 971.02579 | Adj R-SQ | 0.3634 |
| C.V. | 161.15853 | | |

Parameter Estimates

| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
|----------|----|--------------------|----------------|-----------------------|-----------|
| JASEKL | 1 | 238.553352 | 55.576153 | 4.292 | 0.0001 |
| PDPTKS | 1 | 0.046680 | 0.019688 | 2.371 | 0.0183 |
| PDPTLPG | 1 | 0.052510 | 0.018716 | 2.806 | 0.0053 |
| PDPTNUT | 1 | 0.072239 | 0.024293 | 2.974 | 0.0032 |
| PDPTTRNK | 1 | 0.333389 | 0.077715 | 4.290 | 0.0001 |
| INVSProd | 1 | -0.137273 | 0.166533 | -0.824 | 0.4103 |
| ASURANSI | 1 | -0.049379 | 0.112248 | -0.440 | 0.6603 |

Model: INVSkes

Dependent variable: INVSkes INVSkes

Analysis of Variance

| Source | DF | Sum of Squares | Mean Square | F Value | Prob>F |
|--------|-----|----------------|--------------|---------|--------|
| Model | 4 | 25119736.885 | 6279934.2212 | 80.453 | 0.0001 |
| Error | 345 | 26929653.386 | 78056.96634 | | |

| | | | | | |
|---------------------|----------|--------------------|----------------|-----------------------|-----------|
| U Total | 349 | 50749175.000 | | | |
| | Root MSE | 279.38677 | R-Square | 0.4826 | |
| | Dep Mean | 254.22636 | Adj R-SQ | 0.4766 | |
| | C.V. | 109.89685 | | | |
| Parameter Estimates | | | | | |
| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
| JAKP | 1 | 24.186345 | 5.285623 | 4.576 | 0.0001 |
| JABALT | 1 | 18.237876 | 28.665997 | 0.636 | 0.5251 |
| PDPTKS | 1 | 0.019407 | 0.002984 | 6.503 | 0.0001 |
| PDPTKRT | 1 | 0.000665 | 0.001113 | 0.598 | 0.5502 |

Model: ASURANSI

Dependent variable: ASURANSI ASURANSI

| Analysis of Variance | | | | | |
|----------------------|----------|--------------------|----------------|-----------------------|-----------|
| | | Sum of DF | Mean Squares | F Value | Prob>F |
| Source | | | | | |
| Model | | 7 | 198561882.27 | 28365983.181 | 28.055 |
| Error | | 342 | 345791735.09 | 1011086.9447 | |
| U Total | | 349 | 514740259.24 | | |
| | Root MSE | 1005.52819 | R-Square | 0.3648 | |
| | Dep Mean | 569.91885 | Adj R-SQ | 0.3518 | |
| | C.V. | 176.43357 | | | |
| Parameter Estimates | | | | | |
| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
| NPTKS | 1 | 0.077482 | 0.007047 | 10.996 | 0.0001 |
| PDPTLPG | 1 | 0.013919 | 0.013993 | 0.995 | 0.3206 |
| PDPTNUT | 1 | 0.024615 | 0.015948 | 1.543 | 0.1236 |
| PDPTKRT | 1 | 0.001262 | 0.004467 | 0.283 | 0.7777 |
| INVSPEND | 1 | -0.177096 | 0.066628 | -2.658 | 0.0082 |
| INVSPROD | 1 | -0.030675 | 0.107693 | -0.285 | 0.7759 |
| BCKKS | 1 | -0.207440 | 0.040878 | -5.075 | 0.0001 |

Model: PLUNKRED

Dependent variable: PLUNKRED PLUNKRED

| Analysis of Variance | | | | | |
|----------------------|----------|--------------------|----------------|-----------------------|-----------|
| | | Sum of DF | Mean Square | F Value | Prob>F |
| Source | | | | | |
| Model | | 8 | 12949.36071 | 1618.67009 | 265.300 |
| Error | | 341 | 2080.53557 | 6.10128 | |
| U Total | | 349 | 14951.00000 | | |
| | Root MSE | 2.47008 | R-Square | 0.8616 | |
| | Dep Mean | 5.69914 | Adj R-SQ | 0.8583 | |
| | C.V. | 43.34121 | | | |
| Parameter Estimates | | | | | |
| Variable | DF | Parameter Estimate | Standard Error | T for H0: Parameter=0 | Prob > T |
| NKKS | 1 | 0.000260 | 0.000080806 | 3.221 | 0.0014 |
| QTKS | 1 | -0.000010193 | 0.000012049 | -0.846 | 0.3981 |
| HTBS | 1 | -0.006895 | 0.002326 | -2.964 | 0.0033 |
| FEEKUD | 1 | 0.171163 | 0.114453 | 1.495 | 0.1357 |
| TPENGKP | 1 | 0.000040620 | 0.000037000 | 1.098 | 0.2731 |
| JRKPKS | 1 | 0.425815 | 0.055073 | 7.732 | 0.0001 |
| CTKLKS | 1 | 0.004852 | 0.001363 | 3.561 | 0.0004 |
| DPIRKS2 | 1 | 2.874036 | 0.490002 | 5.865 | 0.0001 |

**Lampiran 12. Program Komputer Validasi Model Ekonomi Rumahtangga Petani
Plasma Kelapa Sawit Menggunakan SAS/ETS Versi 6.12
SIMNLIN Metode Seidel**

```

PROC ACCESS DBMS=EXCEL;
PROC ACCESS DBMS=EXCEL;
CREATE WORK._IMEX_.ACCESS;
PATH='C:\Disertasi\Disertasi mama\Data-newPIR.xls';
GETNAMES YES;
SCANTYPE=YES;
CREATE WORK._IMEX_.VIEW;
SELECT ALL;
DATA WORK.analisis;
SET WORK._IMEX_;
RUN;

PROC SORT DATA=SIMULASI; BY POLA; RUN;

PROC SimNlin DATA=simulasi type=2sls seidel maxiter=1500 Stats Simulate Outpredict
Theil Out=D;
ENDO LAKS YKKS QTKS CTKKSPP CTKKSIP CTKKS TCTKKS CTKLKSPP CTKLKSIP
CTKLKS YTKKS QIPN BIPN QIPP BIPP QIPK BIPK
QIPD BIPD BTKUKS QIP BPRKS NPTKS BADMS BTRANS BMKUD BPTKS
PDPTKS PDPTLKS PDPTKP KONSPNG INVSPEND INVSKES ASURANSI TPENGKP PLUNKRED;

EXO UMPP UMIPP LPDPP LPDIAPP PUTKS JAKP JASEKL JABALT
UTKS JBTKS JRKPKS ASETLHN LALKS HTBS
CTKKSAN CTKLKSAN CTKUKS UPAHKS UPAHINTI
OATBS FEEKUD HIPN HIPP HIPK HIPD BPALKS BCKKS
KONSNG INVSPROD TABUNGAN NKKS PDPTLPG PDPTNUT
PDPTTRNK PDPTKRT DADPP DKSUPP DPIRKS1 DPIRKS2;

LAKS =   TCTKKS      *      0.012655 +
         ASETLHN    *  0.000059205 +
         PDPTKS     *  0.000080672 +
         PDPTLPG    * -0.000023513 +
         PDPTNUT    *  0.000049262 +
         DKSUPP     *      0.907658 ;

YKKS =   HTBS      *  14.468862 +
         QIP       *  6.065497 +
         CTKKS     *  12.762090 +
         CTKUKS    *  15.393833 +
         JBTKS     *  1.221939 +
         YTKKS     *  4.938497 ;

CTKKSPP=UPAHKS  *  0.000659 +
     UPAHINTI * -0.000497 +
     LAKS     *  2.237535 +
     UTKS     *  1.845044 +
     CTKKSAN  * -0.012351 +
     CTKUKS   * -0.099424 +
     UMPP     * -0.063077 +
     PUTKS    *  0.122672 +
     DADPP    * -1.324501 ;

```

Lampiran 12. . Lanjutan

```

CTKKSIP=LAKS      *   2.010297 +
UTKS      *   1.486234 +
CTKKSAN    *  -0.010353 +
CTKUKS    *  -0.063286 +
UMIPP     *  -0.156511 +
JABALT    *  -3.251284 +
PUTKS     *   0.588503 +
DADPP     *  -4.328727 ;

CTKLKSPP=UPAHINTI *   0.005079 +
PDPTNUT    *   0.002356 +
LALKS     *   3.286873 +
TPENGKP    *   0.001951 +
PUTKS     *   4.676081 +
LPDPP     *   1.096507 ;

CTKLKSIP=UPAHINTI *   0.001102 +
PDPTNUT    *   0.003748 +
UPAHKS    *  -0.001287 +
LAKS      *  -5.065189 +
JABALT    *  -15.513576 +
PUTKS     *   6.974456 +
LPDIPP     *   7.906389 ;

QIPN=  HIPN/HTBS  *  -11.081188 +
UPAHKS    *   0.008232 +
LAKS      *   90.350345 +
UTKS      *   6.768053 +
PDPTNUT    *   0.001680 +
PDPTLPG    *   0.001483 +
KONSPNG    *  -0.023723 +
INVSKES    *  -0.072343 +
DPIRKS1    *   98.095438 ;

QIPP = HIPP       *  -0.010178 +
UPAHKS    *   0.008482 +
LAKS      *   87.953180 +
UTKS      *   5.786690 +
PDPTNUT    *   0.001235 +
PDPTLPG    *   0.001567 +
KONSPNG    *  -0.025730 +
INVSKES    *  -0.067316 +
DPIRKS1    *   103.947562 ;

QIPK = HIPK       *  -0.093712 +
UPAHKS    *   0.008385 +
HTBS      *   0.288665 +
LAKS      *   98.632993 +
PDPTNUT    *   0.001850 +
KONSPNG    *  -0.004330 +
INVSKES    *  -0.080489 +
DPIRKS1    *   115.453501 ;
PDPTLPG    *   0.000033209 ;

```

Lampiran 12. . Lanjutan

```

QIPD=   HIPD      * -0.000038868 +
        UPAHKS    * 0.000028634 +
        LAKS       2.359321 +
        UTKS       0.048104 +
        PDPTNUT    * 0.000085391 +

KONSPNG= JAKP      * 357.576363 +
        PDPTKS    * 0.027399 +
        PDPTLPG   * 0.073536 +
        PDPTNUT   * 0.012044 +
        PDPTTRNK  * 0.026828 +
        PDPTKRT   * 0.031345 +
        ASURANSI   * -0.053203 +
        DADPP     * 154.057719 ;

INVSPEND=JASEKL   * 238.553352 +
        PDPTKS    * 0.046680 +
        PDPTLPG   * 0.052510 +
        PDPTNUT   * 0.072239 +
        PDPTTRNK  * 0.333389 +
        INVSPROD  * -0.137273 +
        ASURANSI   * -0.049379 ;

INVSKES= JAKP      * 24.186345 +
        JABALT    * 18.237876 +
        PDPTKS    * 0.019407 +
        PDPTKRT   * 0.000665 ;

ASURANSI=NPTKS   * 0.077482 +
        PDPTLPG   * 0.013919 +
        PDPTNUT   * 0.024615 +
        PDPTKRT   * 0.001262 +
        INVSPEND  * -0.177096 +
        INVSPROD  * -0.030675 +
        BCKKS     * -0.207440 ;

PLUNKRED=NKKS    * 0.000260 +
        QTKS      * -0.000010193 +
        HTBS      * -0.006895 +
        FEEKUD    * 0.171163 +
        TPENGKP   * 0.000040620 +
        JRKPKS    * 0.425815 +
        CTKLKS    * 0.004852 +
        DPIRKS2   * 2.874036 ;

QTKS = LAKS * YKKS;
CTKKS = CTKKSPP + CTKKSIP + CTKKSAN;
TCTKKS = CTKKS + CTUUKS;
CTKLKS = CTKLKSP + CTKLKSIP + CTKLKSAN;
YTKKS = QTKS/TCTKKS ;
BIPN = (QIPN*HIPN)/1000;
BIPP = (QIPP*HIPP)/1000;

```

Lampiran 12. . Lanjutan

```
BIPK    = (QIPK*HIPN)/1000;
BIPD    = (QIPD*HIPD)/1000;
BTKUKS  = (CTKUKS*UPAHKS)/1000;
QIP     = (QIPN*HIPN + QIPP*HIPP + QIPK*HIPK) / (HIPN+HIPP+HIPK);
BTRANS  = (OATBS*QTKS)/1000 ;
BMKUD   = (FEEKUD*QTKS)/1000;
BPRKS   = BIPN + BIPP + BIPK + BIPD + BTKUKS + BPALKS ;
NPTKS   = (QTKS*HTBS)/1000;
BADMS   = 0.05*NPTKS;
BPTKS   = BADMS + BCKKS + BTRANS + BMKUD + BPRKS;
PDPTKS  = NPTKS - BPTKS ;
PDPTLKS = PDPTLPG + PDPTNUT + PDPTTRNK + PDPTKRT;
PDPTKP  = PDPTKS + PDPTLKS;
TPENGKP = KONSPNG + KONSNPG + INVSPEND + INVSKEs + INVSPROD + ASURANSI+TABUNGAN;
RANGE N 1 TO 349;
BY POLA;
RUN;
QUIT;
```

Lampiran 13. Hasil Validasi Model Ekonomi Rumahtangga Petani Plasma Kelapa Sawit Menggunakan SAS/ETS Versi 6.12 Prosedur SIMNLIN
Metode Seidel

1. Pola Perusahaan Inti Rakyat-Khusus (Pola PIR-Sus)

| Variable | Nobs | N | Descriptive Statistics | | Predicted | |
|----------|------|-----|------------------------|----------|-----------|----------|
| | | | Mean | Std | Mean | Std |
| LAKS | 150 | 150 | 2.5333 | 1.3244 | 2.6715 | 0.8925 |
| YKKS | 150 | 150 | 10183 | 3017 | 9649 | 1051 |
| QTKS | 150 | 150 | 26813 | 20928 | 26607 | 14103 |
| CTKKSP | 150 | 150 | 36.8867 | 17.3973 | 36.4859 | 4.1750 |
| CTKKSI | 150 | 150 | 29.3867 | 18.8412 | 29.4408 | 6.7278 |
| CTKK | 150 | 150 | 72.4933 | 35.1989 | 72.1467 | 17.7893 |
| TCTKK | 150 | 150 | 91.3067 | 50.5785 | 90.9600 | 39.8924 |
| CTKLSP | 150 | 150 | 149.3667 | 76.7903 | 133.4854 | 26.7676 |
| CTKLSI | 150 | 150 | 139.5200 | 78.1228 | 118.9247 | 37.1714 |
| CTKL | 150 | 150 | 288.8867 | 127.0722 | 252.4101 | 58.2859 |
| YTCK | 150 | 150 | 334.0364 | 213.7152 | 300.9095 | 87.3068 |
| QIPN | 150 | 150 | 304.3333 | 153.6946 | 355.8997 | 78.8915 |
| BIPN | 150 | 150 | 392.6433 | 217.2507 | 454.7398 | 129.9222 |
| QIPP | 150 | 150 | 302.0000 | 153.5792 | 356.9378 | 77.5065 |
| BIPP | 150 | 150 | 420.6383 | 250.3187 | 491.5385 | 169.0478 |
| QIPK | 150 | 150 | 302.3333 | 153.1916 | 309.6082 | 88.4350 |
| BIPK | 150 | 150 | 423.4133 | 253.3045 | 394.3029 | 130.9712 |
| QIPD | 150 | 150 | 5.7200 | 5.3220 | 5.9117 | 2.0944 |
| BIPD | 150 | 150 | 257.4000 | 239.4903 | 266.0249 | 94.2460 |
| BTKU | 150 | 150 | 211.2167 | 430.3585 | 211.2167 | 430.3585 |
| QIP | 150 | 150 | 302.8503 | 153.2929 | 340.3398 | 80.7466 |
| BPRKS | 150 | 150 | 1740 | 1046 | 1853 | 867.7695 |
| NPTKS | 150 | 150 | 9852 | 8426 | 9653 | 5585 |
| BADMS | 150 | 150 | 492.6000 | 421.3013 | 482.6465 | 279.2684 |
| BTRANS | 150 | 150 | 746.1333 | 624.2964 | 732.3133 | 406.7459 |
| BMKUD | 150 | 150 | 93.8467 | 73.2489 | 93.1260 | 49.3606 |
| BPTKS | 150 | 150 | 3150 | 2161 | 3238 | 1653 |
| PDPTKS | 150 | 150 | 6702 | 6485 | 6415 | 4051 |
| PDPTLKS | 150 | 150 | 7021 | 23920 | 7021 | 23920 |
| PDPTKP | 150 | 150 | 13722 | 25374 | 13435 | 24346 |
| KONSPNG | 150 | 150 | 4208 | 1926 | 2158 | 1084 |
| INVSPEND | 150 | 150 | 1016 | 1937 | 1099 | 896.6028 |
| INVSKES | 150 | 150 | 266.3000 | 357.4633 | 248.7578 | 82.4635 |
| ASURANSI | 150 | 150 | 489.6192 | 652.8978 | 554.7854 | 395.3358 |
| TPENGKP | 150 | 150 | 8000 | 5168 | 6080 | 4017 |
| PLUNKRED | 150 | 150 | 7.2800 | 3.9817 | 7.0247 | 1.9420 |

Lampiran 13. Lanjutan

| Variable | N | Statistics of Fit | | | | | | RMS Error | RMS % |
|----------|-----|-------------------|-----------------|--------------|---------------|--------------|------------|--------------|-------|
| | | Mean Error | Mean % Error | Abs Error | Mean Error | Abs Error | % Error | | |
| LAKS | 150 | 0.1382 | 14.1027 | 0.6490 | 24.70991 | 0.9482 | 32.2326 | | |
| YKKS | 150 | -534.7543 | 2.0124 | 2257 | 22.39413 | 2928 | 28.7772 | | |
| QTKS | 150 | -205.8992 | 16.8197 | 8609 | 34.30044 | 14527 | 50.4988 | | |
| CTKKSP | 150 | -0.4008 | 43.0977 | 10.8902 | 61.25550 | 16.8171 | 226.3308 | | |
| CTKKSI | 150 | 0.0541 | 37.6981 | 12.5865 | 61.50537 | 16.7472 | 86.5385 | | |
| CTKK | 150 | -0.3467 | 18.9794 | 20.6268 | 36.77281 | 29.9873 | 68.2633 | | |
| TCTKK | 150 | -0.3467 | 13.6083 | 20.6268 | 29.32109 | 29.9873 | 59.7126 | | |
| CTKLKSPP | 150 | -15.8812 | 6.3653 | 55.4686 | 34.80184 | 79.6393 | 42.3337 | | |
| CTKLKSIP | 150 | -20.5953 | . | 60.8075 | . | 82.9647 | . | | |
| CTKLKS | 150 | -36.4765 | 1.7191 | 93.9580 | 32.49994 | 133.8756 | 46.2005 | | |
| YTJKS | 150 | -33.1269 | 15.1327 | 124.4118 | 41.91970 | 198.2812 | 59.8721 | | |
| QIPN | 150 | 51.5664 | 42.0502 | 107.0336 | 51.30211 | 150.3809 | 84.6293 | | |
| BIPN | 150 | 62.0964 | 42.0502 | 135.6805 | 51.30211 | 198.1371 | 84.6293 | | |
| QIPP | 150 | 54.9378 | 43.5167 | 107.6395 | 52.04052 | 150.7698 | 85.1528 | | |
| BIPP | 150 | 70.9001 | 43.5167 | 147.1634 | 52.04052 | 220.2288 | 85.1528 | | |
| QIPK | 150 | 7.2748 | 22.3073 | 93.0143 | 40.54129 | 139.0590 | 66.9164 | | |
| BIPK | 150 | -29.1105 | 15.5355 | 141.0965 | 40.47023 | 221.2862 | 60.6381 | | |
| QIPD | 150 | 0.1917 | 49.9667 | 2.8482 | 68.65424 | 4.7748 | 107.2957 | | |
| BIPD | 150 | 8.6249 | 49.9667 | 128.1683 | 68.65424 | 214.8671 | 107.2957 | | |
| BTKUKS | 150 | 0 | . | 0 | . | 0 | . | | |
| QIP | 150 | 37.4895 | 35.6396 | 98.7539 | 46.57315 | 144.4091 | 77.7435 | | |
| BPRKS | 150 | 112.5109 | 21.6745 | 460.3172 | 32.78113 | 706.8753 | 47.9912 | | |
| NPTKS | 150 | -199.0698 | 16.8197 | 3139 | 34.30044 | 5516 | 50.4988 | | |
| BADMS | 150 | -9.9535 | 16.8197 | 156.9617 | 34.30044 | 275.8130 | 50.4988 | | |
| BTRANS | 150 | -13.8200 | 16.8197 | 237.8115 | 34.30044 | 414.1073 | 50.4988 | | |
| BMKUD | 150 | -0.7206 | 16.8197 | 30.1323 | 34.30044 | 50.8452 | 50.4988 | | |
| BPTKS | 150 | 88.0168 | 14.5357 | 764.1511 | 26.01913 | 1265 | 35.7505 | | |
| PDPTKS | 150 | -287.0866 | 24.3695 | 2526 | 45.95374 | 4443 | 72.8975 | | |
| PDPTLKS | 150 | 0 | . | 0 | . | 0 | . | | |
| PDPTKP | 150 | -287.0866 | 13.3618 | 2526 | 29.53613 | 4443 | 46.6544 | | |
| KONSPNG | 150 | -2050 | -42.0807 | 2114 | 48.70544 | 2586 | 57.3089 | | |
| INVSPEND | 150 | 82.7050 | . | 1052 | . | 1677 | . | | |
| INVSKES | 150 | -17.5422 | 117.8250 | 213.8893 | 146.51470 | 336.1902 | 203.5666 | | |
| ASURANSI | 150 | 65.1662 | . | 504.1363 | . | 718.0006 | . | | |
| TPENGKP | 150 | -1919 | -17.3051 | 2347 | 28.65315 | 3211 | 33.2065 | | |
| PLUNKRED | 150 | -0.2553 | 35.4393 | 2.6659 | 62.53134 | 3.1967 | 105.8986 | | |

Lampiran 13. Lanjutan

| Variable | N | Theil Forecast Error Statistics | | | | | | | | | |
|----------|-----|---------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--|
| | | MSE | Corr | Bias | Reg | Dist | Var | Covar | U1 | U | |
| | | (R) | (UM) | (UR) | (UD) | (US) | (UC) | | | | |
| LAKS | 150 | 0.89902 | 0.704 | 0.021 | 0.002 | 0.977 | 0.206 | 0.773 | 0.3819 | 0.1672 | |
| YKKS | 150 | 8574059 | 0.294 | 0.033 | 0.003 | 0.963 | 0.448 | 0.519 | 0.2758 | 0.1441 | |
| QTKS | 150 | 211039609 | 0.719 | 0.000 | 0.004 | 0.996 | 0.219 | 0.781 | 0.4276 | 0.2268 | |
| CTKKSP | 150 | 282.81538 | 0.245 | 0.001 | 0.000 | 0.999 | 0.614 | 0.385 | 0.4126 | 0.2170 | |
| CTKKSI | 150 | 280.46780 | 0.465 | 0.000 | 0.015 | 0.985 | 0.520 | 0.480 | 0.4802 | 0.2574 | |
| CTKKS | 150 | 899.23690 | 0.519 | 0.000 | 0.000 | 1.000 | 0.335 | 0.665 | 0.3723 | 0.1937 | |
| TCTKKS | 150 | 899.23690 | 0.804 | 0.000 | 0.001 | 0.999 | 0.126 | 0.874 | 0.2875 | 0.1473 | |
| CTKLKSPP | 150 | 6342 | 0.117 | 0.040 | 0.049 | 0.911 | 0.392 | 0.568 | 0.4745 | 0.2620 | |
| CTKLKSIP | 150 | 6883 | 0.169 | 0.062 | 0.083 | 0.856 | 0.242 | 0.696 | 0.5193 | 0.2918 | |
| CTKLKS | 150 | 17923 | 0.192 | 0.074 | 0.064 | 0.862 | 0.262 | 0.664 | 0.4244 | 0.2331 | |
| YTKKS | 150 | 39315 | 0.397 | 0.028 | 0.000 | 0.972 | 0.404 | 0.568 | 0.5005 | 0.2795 | |
| QIPN | 150 | 22614 | 0.402 | 0.118 | 0.013 | 0.870 | 0.246 | 0.637 | 0.4414 | 0.2132 | |
| BIPN | 150 | 39258 | 0.504 | 0.098 | 0.011 | 0.891 | 0.193 | 0.709 | 0.4419 | 0.2151 | |
| QIPP | 150 | 22732 | 0.409 | 0.133 | 0.009 | 0.858 | 0.253 | 0.614 | 0.4453 | 0.2142 | |
| BIPP | 150 | 48501 | 0.561 | 0.104 | 0.017 | 0.880 | 0.135 | 0.761 | 0.4503 | 0.2183 | |
| QIPK | 150 | 19337 | 0.438 | 0.003 | 0.023 | 0.974 | 0.215 | 0.782 | 0.4106 | 0.2105 | |
| BIPK | 150 | 48968 | 0.495 | 0.017 | 0.001 | 0.982 | 0.304 | 0.679 | 0.4489 | 0.2436 | |
| QIPD | 150 | 22.79894 | 0.439 | 0.002 | 0.003 | 0.996 | 0.454 | 0.544 | 0.6121 | 0.3394 | |
| BIPD | 150 | 46168 | 0.439 | 0.002 | 0.003 | 0.996 | 0.454 | 0.544 | 0.6121 | 0.3394 | |
| BTUKS | 150 | 0 | . | . | . | . | . | . | 0.0000 | 0.0000 | |
| QIP | 150 | 20854 | 0.422 | 0.067 | 0.012 | 0.920 | 0.251 | 0.682 | 0.4257 | 0.2096 | |
| BPRKS | 150 | 499673 | 0.748 | 0.025 | 0.015 | 0.960 | 0.063 | 0.911 | 0.3484 | 0.1735 | |
| NPTKS | 150 | 30429119 | 0.761 | 0.001 | 0.022 | 0.977 | 0.263 | 0.735 | 0.4261 | 0.2290 | |
| BADMS | 150 | 76073 | 0.761 | 0.001 | 0.022 | 0.977 | 0.263 | 0.735 | 0.4261 | 0.2290 | |
| BTRANS | 150 | 171485 | 0.754 | 0.001 | 0.024 | 0.975 | 0.274 | 0.725 | 0.4262 | 0.2290 | |
| BMKUD | 150 | 2585 | 0.719 | 0.000 | 0.004 | 0.996 | 0.219 | 0.781 | 0.4276 | 0.2268 | |
| BPTKS | 150 | 1601010 | 0.812 | 0.005 | 0.006 | 0.989 | 0.160 | 0.835 | 0.3316 | 0.1699 | |
| PDPTKS | 150 | 19738394 | 0.736 | 0.004 | 0.026 | 0.970 | 0.298 | 0.698 | 0.4772 | 0.2630 | |
| PDPTLKS | 150 | 0 | . | . | . | . | . | . | 0.0000 | 0.0000 | |
| PDPTKP | 150 | 19738394 | 0.985 | 0.004 | 0.021 | 0.975 | 0.053 | 0.943 | 0.1544 | 0.0786 | |
| KONSPNG | 150 | 6685752 | 0.571 | 0.628 | 0.000 | 0.372 | 0.105 | 0.266 | 0.5591 | 0.3674 | |
| INVSPEND | 150 | 2811467 | 0.499 | 0.002 | 0.002 | 0.996 | 0.382 | 0.615 | 0.7686 | 0.4660 | |
| INVSKES | 150 | 113024 | 0.358 | 0.003 | 0.018 | 0.979 | 0.665 | 0.333 | 0.7558 | 0.4757 | |
| ASURANSI | 150 | 515525 | 0.131 | 0.008 | 0.185 | 0.807 | 0.128 | 0.864 | 0.8817 | 0.4803 | |
| TPENGKP | 150 | 10308080 | 0.871 | 0.357 | 0.023 | 0.620 | 0.128 | 0.515 | 0.3374 | 0.1912 | |
| PLUNKRED | 150 | 10.21862 | 0.608 | 0.006 | 0.022 | 0.971 | 0.404 | 0.589 | 0.3855 | 0.2052 | |

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Theil Relative Change Forecast Error Statistics

| Variable | N | Relative Change | | MSE Decomposition Proportions | | | | Inequality Coef | | |
|----------|-----|-----------------|-------|-------------------------------|-------------|--------------|-------------|-----------------|--------|--------|
| | | MSE (R) | Corr | Bias (UM) | Reg (UR) | Dist (UD) | Var (US) | Covar (UC) | U1 | U |
| LAKS | 149 | 0.18026 | 0.791 | 0.016 | 0.004 | 0.980 | 0.159 | 0.825 | 0.6059 | 0.3387 |
| YKKS | 149 | 0.08271 | 0.569 | 0.009 | 0.144 | 0.847 | 0.010 | 0.981 | 0.8825 | 0.4644 |
| QTKS | 149 | 0.34562 | 0.765 | 0.009 | 0.066 | 0.925 | 0.009 | 0.982 | 0.6517 | 0.3330 |
| CTKKSP | 149 | 1.29301 | 0.971 | 0.007 | 0.541 | 0.452 | 0.668 | 0.325 | 0.3519 | 0.2056 |
| CTKKSP | 149 | 0.85607 | 0.537 | 0.018 | 0.051 | 0.931 | 0.092 | 0.890 | 0.8488 | 0.4726 |
| CTKKS | 149 | 0.38181 | 0.818 | 0.000 | 0.027 | 0.973 | 0.227 | 0.773 | 0.5714 | 0.3288 |
| TCTKKS | 149 | 0.20431 | 0.907 | 0.000 | 0.046 | 0.954 | 0.185 | 0.815 | 0.4204 | 0.2303 |
| CTKLKSPP | 149 | 0.40346 | 0.397 | 0.015 | 0.074 | 0.911 | 0.126 | 0.859 | 0.9391 | 0.5687 |
| CTKLKSIP | 149 | . | . | . | . | . | . | . | . | . |
| CTKLKS | 149 | 0.29741 | 0.536 | 0.045 | 0.079 | 0.876 | 0.055 | 0.900 | 0.8792 | 0.4967 |
| YTKKS | 149 | 1.51236 | 0.490 | 0.008 | 0.000 | 0.992 | 0.362 | 0.630 | 0.8577 | 0.5795 |
| QIPN | 149 | 0.62479 | 0.667 | 0.084 | 0.013 | 0.903 | 0.095 | 0.820 | 0.7667 | 0.4126 |
| BIPN | 149 | 0.62497 | 0.666 | 0.084 | 0.013 | 0.902 | 0.096 | 0.820 | 0.7670 | 0.4127 |
| QIPP | 149 | 0.61964 | 0.660 | 0.102 | 0.018 | 0.880 | 0.084 | 0.815 | 0.7834 | 0.4167 |
| BIPP | 149 | 0.61978 | 0.659 | 0.102 | 0.018 | 0.880 | 0.084 | 0.814 | 0.7839 | 0.4169 |
| QIPK | 149 | 0.52647 | 0.676 | 0.004 | 0.000 | 0.995 | 0.174 | 0.821 | 0.7221 | 0.4191 |
| BIPK | 149 | 0.58076 | 0.632 | 0.001 | 0.002 | 0.997 | 0.183 | 0.817 | 0.7588 | 0.4516 |
| QIPD | 149 | 1.63452 | 0.563 | 0.011 | 0.061 | 0.928 | 0.068 | 0.921 | 0.8221 | 0.4490 |
| BIPD | 149 | 1.63452 | 0.563 | 0.011 | 0.061 | 0.928 | 0.068 | 0.921 | 0.8221 | 0.4490 |
| BTKUKS | 149 | . | . | . | . | . | . | . | . | . |
| QIP | 149 | 0.56929 | 0.672 | 0.053 | 0.007 | 0.941 | 0.121 | 0.826 | 0.7462 | 0.4117 |
| BPRKS | 149 | 0.31076 | 0.798 | 0.033 | 0.009 | 0.958 | 0.055 | 0.913 | 0.5984 | 0.3149 |
| NPTKS | 149 | 0.34320 | 0.765 | 0.009 | 0.062 | 0.929 | 0.010 | 0.981 | 0.6502 | 0.3329 |
| BADMS | 149 | 0.34320 | 0.765 | 0.009 | 0.062 | 0.929 | 0.010 | 0.981 | 0.6502 | 0.3329 |
| BTRANS | 149 | 0.34894 | 0.763 | 0.009 | 0.064 | 0.927 | 0.010 | 0.981 | 0.6523 | 0.3339 |
| BMKUD | 149 | 0.34562 | 0.765 | 0.009 | 0.066 | 0.925 | 0.009 | 0.982 | 0.6517 | 0.3330 |
| BPTKS | 149 | 0.21484 | 0.804 | 0.022 | 0.042 | 0.935 | 0.013 | 0.965 | 0.5977 | 0.3049 |
| PDPTKS | 149 | 0.58718 | 0.737 | 0.009 | 0.074 | 0.917 | 0.010 | 0.981 | 0.6842 | 0.3504 |
| PDPTLKS | 149 | . | . | . | . | . | . | . | . | . |
| PDPTKP | 149 | 0.29024 | 0.951 | 0.006 | 0.022 | 0.972 | 0.000 | 0.993 | 0.2997 | 0.1495 |
| KONSPNG | 149 | 0.73494 | 0.748 | 0.461 | 0.072 | 0.467 | 0.279 | 0.260 | 0.9482 | 0.5784 |
| INVSPEND | 149 | . | . | . | . | . | . | . | . | . |
| INVSKES | 149 | 6.74515 | 0.355 | 0.081 | 0.093 | 0.826 | 0.104 | 0.815 | 1.0095 | 0.5573 |
| ASURANSI | 149 | . | . | . | . | . | . | . | . | . |
| TPENGKP | 149 | 0.25801 | 0.863 | 0.270 | 0.012 | 0.718 | 0.116 | 0.614 | 0.5787 | 0.3261 |
| PLUNKRED | 149 | 0.84312 | 0.541 | 0.059 | 0.478 | 0.462 | 0.103 | 0.838 | 1.2169 | 0.4958 |

NOTE: Percent error statistics for 5 variables were set to missing values because an actual

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2. Pola Perusahaan Inti Rakyat-Transmigrasi (Pola PIR-Trans)

| Descriptive Statistics | | | | | | |
|------------------------|------|-----|----------|----------|-----------|----------|
| Variable | Nobs | N | Actual | | Predicted | |
| | | | Mean | Std | Mean | Std |
| LAKS | 131 | 131 | 2.2595 | 0.7705 | 2.3015 | 0.6431 |
| YKKS | 131 | 131 | 16013 | 3629 | 15981 | 650.2619 |
| QTKS | 131 | 131 | 36327 | 16193 | 37109 | 12500 |
| CTKKSP | 131 | 131 | 21.4885 | 14.6804 | 25.8921 | 5.5450 |
| CTKKSP | 131 | 131 | 13.0229 | 5.2645 | 15.0918 | 2.4894 |
| CTKK | 131 | 131 | 37.1908 | 17.0276 | 43.6633 | 10.1738 |
| TCTKK | 131 | 131 | 41.2214 | 20.0259 | 47.6938 | 15.2165 |
| CTKLSP | 131 | 131 | 139.5115 | 103.1725 | 112.0314 | 14.2994 |
| CTKLSP | 131 | 131 | 44.7328 | 80.2991 | 70.5886 | 25.9608 |
| CTKLK | 131 | 131 | 202.1069 | 156.6596 | 200.4826 | 70.0020 |
| YTKK | 131 | 131 | 1141 | 842.5076 | 810.0548 | 247.2289 |
| QIPN | 131 | 131 | 383.2061 | 149.0819 | 428.0627 | 75.6365 |
| BIPN | 131 | 131 | 432.8244 | 171.8008 | 484.0509 | 94.7705 |
| QIPP | 131 | 131 | 387.7863 | 149.9156 | 436.1087 | 76.0685 |
| BIPP | 131 | 131 | 600.9733 | 257.2896 | 676.6979 | 169.1902 |
| QIPK | 131 | 131 | 393.8931 | 175.5511 | 405.0485 | 88.8176 |
| BIPK | 131 | 131 | 717.8626 | 300.8961 | 458.2350 | 107.8995 |
| QIPD | 131 | 131 | 4.8130 | 2.0299 | 5.2725 | 1.5636 |
| BIPD | 131 | 131 | 161.9359 | 69.8396 | 178.0376 | 52.5810 |
| BTUKS | 131 | 131 | 64.4656 | 240.7235 | 64.4656 | 240.7235 |
| QIP | 131 | 131 | 388.9596 | 156.5246 | 421.0260 | 81.8909 |
| BPRKS | 131 | 131 | 2013 | 772.3481 | 1896 | 517.5790 |
| NPTKS | 131 | 131 | 14427 | 6362 | 14758 | 5051 |
| BADMS | 131 | 131 | 721.3718 | 318.0933 | 737.9078 | 252.5457 |
| BTRANS | 131 | 131 | 1072 | 476.1072 | 1098 | 386.6925 |
| BMKUD | 131 | 131 | 176.5626 | 81.7041 | 180.1565 | 67.3549 |
| BPTKS | 131 | 131 | 4684 | 2508 | 4614 | 2065 |
| PDPTKS | 131 | 131 | 9743 | 5314 | 10145 | 4657 |
| PDPTLKS | 131 | 131 | 2389 | 4024 | 2389 | 4024 |
| PDPTKP | 131 | 131 | 12132 | 6442 | 12534 | 6369 |
| KONSPNG | 131 | 131 | 3568 | 813.0634 | 1815 | 405.7398 |
| INVSPEND | 131 | 131 | 987.1450 | 1690 | 921.9197 | 398.3547 |
| INVSKES | 131 | 131 | 299.4656 | 224.4148 | 306.6565 | 91.7258 |
| ASURANSI | 131 | 131 | 957.7008 | 1507 | 897.7554 | 573.8958 |
| TPENGKP | 131 | 131 | 7841 | 5155 | 5969 | 3675 |
| PLUNKRED | 131 | 131 | 3.6947 | 1.3179 | 3.6981 | 0.6036 |

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Statistics of Fit

| Variable | N | Mean | Mean % | Mean Abs | Mean Abs % | RMS | RMS % |
|----------|-----|-----------|----------|----------|------------|----------|----------|
| | | Error | Error | Error | Error | Error | Error |
| LAKS | 131 | 0.0419 | 7.0609 | 0.5107 | 21.11875 | 0.7980 | 31.4982 |
| YKKS | 131 | -31.9047 | 4.5360 | 2862 | 18.08703 | 3689 | 22.4773 |
| QTKS | 131 | 782.2935 | 13.0336 | 11607 | 31.84634 | 17999 | 47.3853 |
| CTKKSP | 131 | 4.4035 | 217.1467 | 10.2599 | 231.38530 | 12.9575 | 586.5172 |
| CTKKSP | 131 | 2.0689 | 26.9187 | 4.4446 | 36.29560 | 6.3164 | 50.5362 |
| CTKK | 131 | 6.4724 | 39.5392 | 12.1050 | 48.69445 | 15.5967 | 73.3383 |
| TCTKKS | 131 | 6.4724 | 35.1994 | 12.1050 | 43.99927 | 15.5967 | 66.3193 |
| CTKLKSPP | 131 | -27.4801 | 63.7421 | 76.9895 | 103.17971 | 105.5977 | 239.2876 |
| CTKLKSIP | 131 | 25.8558 | . | 62.3063 | . | 81.5048 | . |
| CTKLKS | 131 | -1.6242 | 106.4645 | 103.0451 | 133.83992 | 128.4648 | 385.5632 |
| YTKKS | 131 | -330.8994 | -4.2797 | 497.1068 | 38.77755 | 807.5069 | 48.7894 |
| QIPN | 131 | 44.8566 | 30.2949 | 121.3751 | 43.78233 | 154.7870 | 74.8262 |
| BIPN | 131 | 51.2265 | 30.2949 | 137.6238 | 43.78233 | 175.5755 | 74.8262 |
| QIPP | 131 | 48.3224 | 30.8949 | 119.0550 | 42.89300 | 153.9473 | 75.1847 |
| BIPP | 131 | 75.7247 | 30.8949 | 185.4400 | 42.89300 | 239.9284 | 75.1847 |
| QIPK | 131 | 11.1554 | 21.3333 | 132.5968 | 42.79878 | 170.7682 | 68.8098 |
| BIPK | 131 | -259.6276 | -25.0523 | 292.9459 | 36.95509 | 397.6080 | 46.9986 |
| QIPD | 131 | 0.4596 | 30.3561 | 1.8126 | 47.81282 | 2.5158 | 76.8337 |
| BIPD | 131 | 16.1017 | 30.3561 | 61.4190 | 47.81282 | 85.1697 | 76.8337 |
| BTKUKS | 131 | 0 | . | 0 | . | 0 | . |
| QIP | 131 | 32.0664 | 26.5055 | 123.9551 | 42.78547 | 156.4944 | 72.0034 |
| BPRKS | 131 | -116.5747 | 5.1909 | 585.3004 | 32.67806 | 719.0124 | 48.5266 |
| NPTKS | 131 | 330.7204 | 13.0336 | 4601 | 31.84634 | 7074 | 47.3853 |
| BADMS | 131 | 16.5360 | 13.0336 | 230.0419 | 31.84634 | 353.6853 | 47.3853 |
| BTRANS | 131 | 25.7145 | 13.0336 | 341.3840 | 31.84634 | 525.5641 | 47.3853 |
| BMKUD | 131 | 3.5939 | 13.0336 | 56.3124 | 31.84634 | 87.6629 | 47.3853 |
| BPTKS | 131 | -70.7303 | 6.1406 | 1065 | 25.88597 | 1479 | 36.8850 |
| PDPTKS | 131 | 401.4507 | 29.5045 | 3731 | 50.42040 | 5759 | 130.2578 |
| PDPTLKS | 131 | 0 | . | 0 | . | 0 | . |
| PDPTKP | 131 | 401.4507 | 16.8807 | 3731 | 35.54155 | 5759 | 57.2915 |
| KONSPNG | 131 | -1753 | -47.6277 | 1756 | 47.74626 | 1910 | 49.3435 |
| INVSPEND | 131 | -65.2254 | . | 934.2302 | . | 1625 | . |
| INVSKES | 131 | 7.1908 | 105.3811 | 201.1097 | 139.53706 | 233.3606 | 233.5910 |
| ASURANSI | 131 | -59.9454 | . | 845.1691 | . | 1459 | . |
| TPENGKP | 131 | -1871 | -19.9516 | 2105 | 24.60542 | 3060 | 29.1305 |
| PLUNKRED | 131 | 0.003397 | 12.6537 | 0.9866 | 30.23062 | 1.3510 | 43.8534 |

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| Theil Forecast Error Statistics | | | | | | | | | | | |
|---------------------------------|-----|-------------------|--------------|--------------|-------------|--------------|-------------------|-----------------|--------|--------|--|
| | | MSE Decomposition | | | Proportions | | | Inequality Coef | | | |
| Variable | N | MSE (R) | Corr (UM) | Bias (UR) | Reg (UD) | Dist (US) | Var Covar (UC) | | U1 | U | |
| LAKS | 131 | 0.63682 | 0.371 | 0.003 | 0.199 | 0.798 | 0.025 | 0.972 | 0.3344 | 0.1671 | |
| YKKS | 131 | 13611218 | -.026 | 0.000 | 0.040 | 0.960 | 0.647 | 0.353 | 0.2247 | 0.1138 | |
| QTKS | 131 | 323975530 | 0.229 | 0.002 | 0.237 | 0.761 | 0.042 | 0.956 | 0.4528 | 0.2282 | |
| CTKKSP | 131 | 167.89592 | 0.593 | 0.115 | 0.059 | 0.825 | 0.493 | 0.391 | 0.4985 | 0.2470 | |
| CTKKSI | 131 | 39.89733 | -.075 | 0.107 | 0.207 | 0.685 | 0.192 | 0.701 | 0.4499 | 0.2153 | |
| CTKKS | 131 | 243.25574 | 0.550 | 0.172 | 0.003 | 0.825 | 0.192 | 0.636 | 0.3816 | 0.1820 | |
| TCTKKS | 131 | 243.25574 | 0.705 | 0.172 | 0.005 | 0.823 | 0.094 | 0.733 | 0.3406 | 0.1627 | |
| CTKLKSPP | 131 | 11151 | 0.127 | 0.068 | 0.000 | 0.932 | 0.703 | 0.229 | 0.6094 | 0.3689 | |
| CTKLKSIP | 131 | 6643 | 0.264 | 0.101 | 0.003 | 0.896 | 0.441 | 0.458 | 0.8893 | 0.4886 | |
| CTKLKS | 131 | 16503 | 0.584 | 0.000 | 0.028 | 0.972 | 0.452 | 0.548 | 0.5031 | 0.2747 | |
| YTKKS | 131 | 652067 | 0.538 | 0.168 | 0.065 | 0.767 | 0.539 | 0.293 | 0.5701 | 0.3568 | |
| QIPN | 131 | 23959 | 0.259 | 0.084 | 0.057 | 0.859 | 0.223 | 0.693 | 0.3766 | 0.1830 | |
| BIPN | 131 | 30827 | 0.309 | 0.085 | 0.056 | 0.859 | 0.191 | 0.724 | 0.3772 | 0.1832 | |
| QIPP | 131 | 23700 | 0.295 | 0.099 | 0.042 | 0.859 | 0.228 | 0.673 | 0.3705 | 0.1794 | |
| BIPP | 131 | 57566 | 0.489 | 0.100 | 0.032 | 0.868 | 0.134 | 0.767 | 0.3672 | 0.1776 | |
| QIPK | 131 | 29162 | 0.303 | 0.004 | 0.043 | 0.953 | 0.256 | 0.740 | 0.3962 | 0.2020 | |
| BIPK | 131 | 158092 | 0.166 | 0.426 | 0.021 | 0.553 | 0.234 | 0.340 | 0.5111 | 0.3184 | |
| QIPD | 131 | 6.32926 | 0.063 | 0.033 | 0.323 | 0.643 | 0.034 | 0.933 | 0.4819 | 0.2347 | |
| BIPD | 131 | 7254 | 0.081 | 0.036 | 0.301 | 0.663 | 0.041 | 0.924 | 0.4832 | 0.2354 | |
| BTUKS | 131 | 0 | . | . | . | . | . | . | 0.0000 | 0.0000 | |
| QIP | 131 | 24490 | 0.295 | 0.042 | 0.052 | 0.906 | 0.226 | 0.732 | 0.3735 | 0.1846 | |
| BPRKS | 131 | 516979 | 0.447 | 0.026 | 0.057 | 0.917 | 0.125 | 0.849 | 0.3336 | 0.1745 | |
| NPTKS | 131 | 50037311 | 0.244 | 0.002 | 0.243 | 0.755 | 0.034 | 0.964 | 0.4489 | 0.2256 | |
| BADMS | 131 | 125093 | 0.244 | 0.002 | 0.243 | 0.755 | 0.034 | 0.964 | 0.4489 | 0.2256 | |
| BTRANS | 131 | 276218 | 0.268 | 0.002 | 0.242 | 0.756 | 0.029 | 0.969 | 0.4482 | 0.2250 | |
| BMKUD | 131 | 7685 | 0.316 | 0.002 | 0.223 | 0.776 | 0.027 | 0.972 | 0.4509 | 0.2267 | |
| BPTKS | 131 | 2186271 | 0.807 | 0.002 | 0.001 | 0.997 | 0.089 | 0.909 | 0.2785 | 0.1427 | |
| PDPTKS | 131 | 33171822 | 0.337 | 0.005 | 0.246 | 0.749 | 0.013 | 0.982 | 0.5194 | 0.2589 | |
| PDPTLKS | 131 | 0 | . | . | . | . | . | . | 0.0000 | 0.0000 | |
| PDPTKP | 131 | 33171822 | 0.595 | 0.005 | 0.193 | 0.802 | 0.000 | 0.995 | 0.4196 | 0.2074 | |
| KONSPNG | 131 | 3649748 | 0.372 | 0.842 | 0.003 | 0.155 | 0.045 | 0.113 | 0.5221 | 0.3462 | |
| INVSPEND | 131 | 2642026 | 0.265 | 0.002 | 0.001 | 0.997 | 0.627 | 0.372 | 0.8329 | 0.5500 | |
| INVSKES | 131 | 54457 | 0.096 | 0.001 | 0.090 | 0.909 | 0.321 | 0.678 | 0.6244 | 0.3364 | |
| ASURANSI | 131 | 2129732 | 0.264 | 0.002 | 0.014 | 0.984 | 0.405 | 0.593 | 0.8197 | 0.5130 | |
| TPENGKP | 131 | 9360908 | 0.902 | 0.374 | 0.101 | 0.525 | 0.232 | 0.394 | 0.3264 | 0.1868 | |
| PLUNKRED | 131 | 1.82533 | 0.165 | 0.000 | 0.081 | 0.919 | 0.277 | 0.723 | 0.3446 | 0.1762 | |

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| Theil Relative Change Forecast Error Statistics | | | | | | | | | | | | |
|---|-----|-----------------|-------------|-------------------------------|-------------|--------------|-------------|-----------------|--------|--------|--|--|
| | | Relative Change | | MSE Decomposition Proportions | | | | Inequality Coef | | | | |
| Variable | N | MSE (R) | Corr (R) | Bias (UM) | Reg (UR) | Dist (UD) | Var (US) | Covar (UC) | U1 | U | | |
| LAKS | 130 | 0.14073 | 0.558 | 0.003 | 0.151 | 0.846 | 0.010 | 0.987 | 0.8919 | 0.4644 | | |
| YKKS | 130 | 0.05445 | 0.483 | 0.007 | 0.224 | 0.769 | 0.002 | 0.991 | 0.9917 | 0.5032 | | |
| QTKS | 130 | 0.36218 | 0.452 | 0.008 | 0.256 | 0.737 | 0.000 | 0.992 | 1.0224 | 0.5117 | | |
| CTKKSP | 130 | 16.71801 | 0.715 | 0.109 | 0.700 | 0.191 | 0.434 | 0.456 | 1.5278 | 0.4898 | | |
| CTKKSP | 130 | 0.25073 | 0.474 | 0.147 | 0.202 | 0.651 | 0.001 | 0.852 | 1.0797 | 0.5124 | | |
| CTKKS | 130 | 0.51700 | 0.528 | 0.149 | 0.197 | 0.654 | 0.000 | 0.851 | 1.0306 | 0.4814 | | |
| TCTKKS | 130 | 0.43076 | 0.743 | 0.132 | 0.083 | 0.785 | 0.003 | 0.866 | 0.7387 | 0.3598 | | |
| CTKLKSPP | 130 | 4.93064 | 0.612 | 0.001 | 0.230 | 0.768 | 0.002 | 0.996 | 0.8608 | 0.4237 | | |
| CTKLKSIP | 130 | . | . | . | . | . | . | . | . | . | | |
| CTKLKS | 130 | 8.60823 | 0.649 | 0.018 | 0.510 | 0.472 | 0.158 | 0.825 | 1.0571 | 0.4327 | | |
| YTKKS | 130 | 1.27699 | 0.660 | 0.067 | 0.060 | 0.873 | 0.445 | 0.488 | 0.7864 | 0.5411 | | |
| QIPN | 130 | 0.33512 | 0.680 | 0.158 | 0.447 | 0.395 | 0.156 | 0.686 | 1.1462 | 0.4457 | | |
| BIPN | 130 | 0.33546 | 0.681 | 0.159 | 0.448 | 0.393 | 0.157 | 0.684 | 1.1480 | 0.4458 | | |
| QIPP | 130 | 0.33569 | 0.686 | 0.166 | 0.448 | 0.386 | 0.161 | 0.673 | 1.1514 | 0.4452 | | |
| BIPP | 130 | 0.33642 | 0.689 | 0.167 | 0.450 | 0.383 | 0.164 | 0.668 | 1.1511 | 0.4442 | | |
| QIPK | 130 | 0.31635 | 0.634 | 0.056 | 0.427 | 0.517 | 0.098 | 0.846 | 1.0555 | 0.4427 | | |
| BIPK | 130 | 0.29633 | 0.600 | 0.384 | 0.040 | 0.575 | 0.032 | 0.584 | 1.0364 | 0.5404 | | |
| QIPD | 130 | 0.56475 | 0.611 | 0.049 | 0.323 | 0.628 | 0.032 | 0.919 | 0.9753 | 0.4376 | | |
| BIPD | 130 | 0.56404 | 0.609 | 0.050 | 0.310 | 0.641 | 0.026 | 0.924 | 0.9688 | 0.4380 | | |
| BTKUKS | 130 | . | . | . | . | . | . | . | . | . | | |
| QIP | 130 | 0.31664 | 0.669 | 0.115 | 0.447 | 0.439 | 0.140 | 0.746 | 1.1021 | 0.4404 | | |
| BPRKS | 130 | 0.16252 | 0.711 | 0.000 | 0.300 | 0.700 | 0.041 | 0.959 | 0.8284 | 0.3826 | | |
| NPTKS | 130 | 0.36210 | 0.454 | 0.008 | 0.254 | 0.738 | 0.000 | 0.992 | 1.0205 | 0.5107 | | |
| BADMS | 130 | 0.36210 | 0.454 | 0.008 | 0.254 | 0.738 | 0.000 | 0.992 | 1.0205 | 0.5107 | | |
| BTRANS | 130 | 0.36134 | 0.453 | 0.008 | 0.252 | 0.740 | 0.001 | 0.992 | 1.0187 | 0.5106 | | |
| BMKUD | 130 | 0.53229 | 0.585 | 0.012 | 0.477 | 0.512 | 0.105 | 0.883 | 1.1105 | 0.4671 | | |
| BPTKS | 130 | 0.15665 | 0.705 | 0.002 | 0.208 | 0.790 | 0.007 | 0.990 | 0.7841 | 0.3781 | | |
| PDPTKS | 130 | 0.96407 | 0.718 | 0.010 | 0.261 | 0.729 | 0.027 | 0.963 | 0.8011 | 0.3733 | | |
| PDPTLKs | 130 | . | . | . | . | . | . | . | . | . | | |
| PDPTKP | 130 | 0.48721 | 0.789 | 0.020 | 0.437 | 0.543 | 0.166 | 0.813 | 0.8118 | 0.3456 | | |
| KONSPNG | 130 | 0.29747 | 0.684 | 0.845 | 0.002 | 0.153 | 0.046 | 0.110 | 1.8475 | 0.6902 | | |
| INVSPEND | 130 | . | . | . | . | . | . | . | . | . | | |
| INVSKES | 130 | 5.56810 | 0.507 | 0.067 | 0.378 | 0.555 | 0.036 | 0.897 | 1.1188 | 0.4869 | | |
| ASURANSI | 130 | . | . | . | . | . | . | . | . | . | | |
| TPENGKP | 130 | 0.14701 | 0.848 | 0.413 | 0.004 | 0.583 | 0.081 | 0.506 | 0.6805 | 0.3743 | | |
| PLUNKRED | 130 | 0.24613 | 0.569 | 0.004 | 0.035 | 0.960 | 0.106 | 0.890 | 0.8271 | 0.4726 | | |

NOTE: Percent error statistics for 10 variables were set to missing values because an actual

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3. Pola Perusahaan Inti Rakyat-Kredit Usaha Kecil (Pola PIR-KUK)

Solution Range N = 282 To 349

Descriptive Statistics

| Variable | Nobs | N | Actual | | Predicted | |
|----------|------|----|----------|----------|-----------|----------|
| | | | Mean | Std | Mean | Std |
| LAKS | 68 | 68 | 2.3824 | 1.6302 | 1.8992 | 0.3484 |
| YKKS | 68 | 68 | 6679 | 1095 | 7971 | 892.9316 |
| QTKS | 68 | 68 | 15975 | 12160 | 15234 | 3911 |
| CTKKSP | 68 | 68 | 24.2794 | 12.1788 | 17.0549 | 2.0681 |
| CTKKSP | 68 | 68 | 13.4559 | 8.8460 | 9.7886 | 2.5988 |
| CTKK | 68 | 68 | 42.9265 | 21.1740 | 32.0347 | 9.6843 |
| TCTKK | 68 | 68 | 44.2500 | 21.2022 | 33.3582 | 10.9239 |
| CTKLSP | 68 | 68 | 107.6765 | 148.9736 | 102.1499 | 13.7010 |
| CTKLSP | 68 | 68 | 83.0735 | 106.3612 | 78.1455 | 23.3905 |
| CTKLK | 68 | 68 | 210.7500 | 210.0236 | 200.2953 | 68.6110 |
| YTKKS | 68 | 68 | 411.3634 | 325.1287 | 484.6590 | 139.0247 |
| QIPN | 68 | 68 | 238.2353 | 211.2273 | 259.7274 | 31.1802 |
| BIPN | 68 | 68 | 262.0588 | 232.3501 | 285.7001 | 34.2983 |
| QIPP | 68 | 68 | 238.9706 | 211.3559 | 268.8373 | 30.6859 |
| BIPP | 68 | 68 | 334.5588 | 295.8982 | 376.3722 | 42.9602 |
| QIPK | 68 | 68 | 220.9559 | 216.7695 | 214.8723 | 36.9595 |
| BIPK | 68 | 68 | 441.9118 | 433.5389 | 236.3595 | 40.6555 |
| QIPD | 68 | 68 | 5.7647 | 4.9509 | 4.3085 | 0.9333 |
| BIPD | 68 | 68 | 185.4118 | 123.9620 | 141.1032 | 28.4125 |
| BTKUKS | 68 | 68 | 19.8529 | 112.2330 | 19.8529 | 112.2330 |
| QIP | 68 | 68 | 230.7843 | 212.7113 | 242.6260 | 31.5976 |
| BPRKS | 68 | 68 | 1279 | 1074 | 1094 | 185.7301 |
| NPTKS | 68 | 68 | 5603 | 3858 | 5515 | 2174 |
| BADMS | 68 | 68 | 280.1596 | 192.8974 | 275.7643 | 108.6876 |
| BTRANS | 68 | 68 | 505.6397 | 430.8833 | 474.1508 | 128.1314 |
| BMKUD | 68 | 68 | 84.9132 | 92.7742 | 77.5772 | 42.8539 |
| BPTKS | 68 | 68 | 3867 | 2854 | 3640 | 1351 |
| PDPTKS | 68 | 68 | 1736 | 1221 | 1876 | 1830 |
| PDPTLKS | 68 | 68 | 4241 | 4038 | 4241 | 4038 |
| PDPTKP | 68 | 68 | 5977 | 3904 | 6116 | 4376 |
| KONSPNG | 68 | 68 | 3425 | 1313 | 1783 | 530.0034 |
| INVSPEND | 68 | 68 | 840.2941 | 1162 | 915.9293 | 385.2222 |
| INVSKES | 68 | 68 | 140.4412 | 146.4142 | 159.4333 | 45.5408 |
| ASURANSI | 68 | 68 | 0 | 0 | -53.4438 | 254.3303 |
| TPENGKP | 68 | 68 | 5208 | 2101 | 3607 | 1605 |
| PLUNKRED | 68 | 68 | 6.0735 | 1.3194 | 5.7269 | 1.3983 |

Lampiran 13. Lanjutan

| Variable | N | Statistics of Fit | | | | | | |
|----------|----|-------------------|-----------------|--------------|---------------|--------------|------------|--------------|
| | | Mean Error | Mean % Error | Abs Error | Mean Error | Abs Error | % Error | RMS Error |
| LAKS | 68 | -0.4831 | -11.8627 | 0.5653 | 15.97054 | 1.5917 | 21.4161 | |
| YKKS | 68 | 1293 | 21.5113 | 1566 | 23.91732 | 1894 | 29.4802 | |
| QTKS | 68 | -741.0117 | 7.1969 | 4400 | 21.51911 | 11641 | 28.6050 | |
| CTKKSP | 68 | -7.2245 | 2.2648 | 11.0218 | 55.54313 | 13.8562 | 102.7632 | |
| CTKKSI | 68 | -3.6673 | -12.3200 | 4.4587 | 31.15937 | 9.8948 | 62.9956 | |
| CTKK | 68 | -10.8918 | -16.0103 | 14.6894 | 32.12822 | 20.3366 | 36.5951 | |
| TCTKK | 68 | -10.8918 | -16.6347 | 14.6894 | 30.85527 | 20.3366 | 34.5910 | |
| CTKLKSPP | 68 | -5.5266 | 426.8496 | 92.2274 | 457.67848 | 148.0687 | 790.1881 | |
| CTKLKSIP | 68 | -4.9281 | . | 80.6720 | . | 103.6369 | . | |
| CTKLKS | 68 | -10.4547 | 267.6777 | 132.7942 | 299.58908 | 181.5989 | 708.9294 | |
| YTKKS | 68 | 73.2956 | 42.7597 | 194.5590 | 53.62072 | 316.0722 | 70.4264 | |
| QIPN | 68 | 21.4921 | 36.9359 | 95.7211 | 46.60301 | 200.5154 | 71.9827 | |
| BIPN | 68 | 23.6413 | 36.9359 | 105.2932 | 46.60301 | 220.5670 | 71.9827 | |
| QIPP | 68 | 29.8667 | 41.9170 | 101.3502 | 50.78046 | 201.8458 | 78.0489 | |
| BIPP | 68 | 41.8134 | 41.9170 | 141.8903 | 50.78046 | 282.5842 | 78.0489 | |
| QIPK | 68 | -6.0836 | 34.1766 | 88.1056 | 50.90317 | 203.7943 | 86.2968 | |
| BIPK | 68 | -205.5523 | -26.2029 | 227.5817 | 43.78601 | 464.2681 | 50.8529 | |
| QIPD | 68 | -1.4562 | -9.6029 | 2.1125 | 29.32723 | 4.9576 | 35.4104 | |
| BIPD | 68 | -44.3086 | -9.6029 | 65.3093 | 29.32723 | 129.1896 | 35.4104 | |
| BTKUKS | 68 | 0 | . | 0 | . | 0 | . | |
| QIP | 68 | 11.8417 | 34.0817 | 89.3682 | 45.09440 | 200.1930 | 69.2298 | |
| BPRKS | 68 | -184.4062 | 3.6461 | 409.0012 | 27.32649 | 1031 | 36.4270 | |
| NPTKS | 68 | -87.9053 | 7.1969 | 1531 | 21.51911 | 3615 | 28.6050 | |
| BADMS | 68 | -4.3953 | 7.1969 | 76.5387 | 21.51911 | 180.7558 | 28.6050 | |
| BTRANS | 68 | -31.4889 | 7.1969 | 145.1995 | 21.51911 | 404.7808 | 28.6050 | |
| BMKUD | 68 | -7.3360 | 7.1969 | 26.0697 | 21.51911 | 79.3666 | 28.6050 | |
| BPTKS | 68 | -227.6264 | 0.9172 | 556.4134 | 10.22757 | 1651 | 13.7389 | |
| PDPTKS | 68 | 139.7211 | 149.0320 | 1180 | 187.73100 | 2127 | 1027 | |
| PDPTLKS | 68 | 0 | . | 0 | . | 0 | . | |
| PDPTKP | 68 | 139.7211 | 9.2885 | 1180 | 27.29886 | 2127 | 44.6763 | |
| KONSPNG | 68 | -1642 | -38.9734 | 1801 | 49.44784 | 2091 | 52.7620 | |
| INVSPEND | 68 | 75.6352 | . | 744.5571 | . | 1052 | . | |
| INVSKES | 68 | 18.9921 | 64.5077 | 99.2776 | 82.18922 | 146.3083 | 103.4241 | |
| ASURANSI | 68 | -53.4438 | . | 137.2424 | . | 258.0483 | . | |
| TPENGKP | 68 | -1601 | -27.1027 | 1778 | 32.49188 | 2244 | 37.6230 | |
| PLUNKRED | 68 | -0.3467 | -3.0123 | 1.3566 | 21.80619 | 1.6708 | 25.8459 | |

Lampiran 13. Lanjutan

| Variable | N | Theil Forecast Error Statistics | | | | | | | | | |
|----------|----|---------------------------------|--------|-------|-------|-------|-------|-------|--------|--------|--|
| | | MSE | Corr | Bias | Reg | Dist | Var | Covar | U1 | U | |
| | | (R) | (UM) | (UR) | (UD) | (US) | (UC) | | | | |
| LAKS | 68 | 2.53358 | 0.391 | 0.092 | 0.033 | 0.875 | 0.639 | 0.269 | 0.5527 | 0.3309 | |
| YKKS | 68 | 3585700 | 0.028 | 0.466 | 0.205 | 0.329 | 0.011 | 0.523 | 0.2798 | 0.1281 | |
| QTKS | 68 | 135503999 | 0.275 | 0.004 | 0.002 | 0.994 | 0.495 | 0.501 | 0.5814 | 0.3257 | |
| CTKKSP | 68 | 191.99444 | 0.213 | 0.272 | 0.001 | 0.727 | 0.525 | 0.204 | 0.5109 | 0.3128 | |
| CTKKSI | 68 | 97.90623 | -0.015 | 0.137 | 0.075 | 0.787 | 0.393 | 0.470 | 0.6158 | 0.3778 | |
| CTKKS | 68 | 413.57543 | 0.592 | 0.287 | 0.019 | 0.694 | 0.315 | 0.399 | 0.4255 | 0.2503 | |
| TCTKKS | 68 | 413.57543 | 0.582 | 0.287 | 0.005 | 0.708 | 0.252 | 0.461 | 0.4150 | 0.2419 | |
| CTKLKSPP | 68 | 21924 | 0.039 | 0.001 | 0.003 | 0.996 | 0.822 | 0.176 | 0.8095 | 0.5178 | |
| CTKLKSIP | 68 | 10741 | 0.198 | 0.002 | 0.001 | 0.997 | 0.632 | 0.366 | 0.7714 | 0.4801 | |
| CTKLKS | 68 | 32978 | 0.536 | 0.003 | 0.058 | 0.939 | 0.597 | 0.399 | 0.6126 | 0.3575 | |
| YTKKS | 68 | 99902 | 0.322 | 0.054 | 0.012 | 0.935 | 0.342 | 0.605 | 0.6045 | 0.3078 | |
| QIPN | 68 | 40206 | 0.399 | 0.011 | 0.069 | 0.920 | 0.794 | 0.194 | 0.6318 | 0.3464 | |
| BIPN | 68 | 48650 | 0.399 | 0.011 | 0.069 | 0.920 | 0.794 | 0.194 | 0.6318 | 0.3464 | |
| QIPP | 68 | 40742 | 0.398 | 0.022 | 0.069 | 0.909 | 0.789 | 0.189 | 0.6347 | 0.3430 | |
| BIPP | 68 | 79854 | 0.398 | 0.022 | 0.069 | 0.909 | 0.789 | 0.189 | 0.6347 | 0.3430 | |
| QIPK | 68 | 41532 | 0.389 | 0.001 | 0.053 | 0.946 | 0.767 | 0.232 | 0.6608 | 0.3872 | |
| BIPK | 68 | 215545 | 0.389 | 0.196 | 0.075 | 0.729 | 0.706 | 0.098 | 0.7527 | 0.5420 | |
| QIPD | 68 | 24.57799 | 0.280 | 0.086 | 0.008 | 0.905 | 0.647 | 0.267 | 0.6545 | 0.4138 | |
| BIPD | 68 | 16690 | 0.174 | 0.118 | 0.003 | 0.880 | 0.539 | 0.343 | 0.5806 | 0.3526 | |
| BTKUKS | 68 | 0 | . | . | . | . | . | . | 0.0000 | 0.0000 | |
| QIP | 68 | 40077 | 0.425 | 0.003 | 0.085 | 0.912 | 0.806 | 0.190 | 0.6400 | 0.3591 | |
| BPRKS | 68 | 1063559 | 0.360 | 0.032 | 0.037 | 0.931 | 0.731 | 0.237 | 0.6194 | 0.3717 | |
| NPTKS | 68 | 13069061 | 0.379 | 0.001 | 0.038 | 0.961 | 0.214 | 0.786 | 0.5327 | 0.2845 | |
| BADMS | 68 | 32673 | 0.379 | 0.001 | 0.038 | 0.961 | 0.214 | 0.786 | 0.5327 | 0.2845 | |
| BTRANS | 68 | 163847 | 0.333 | 0.006 | 0.001 | 0.993 | 0.551 | 0.443 | 0.6112 | 0.3510 | |
| BMKUD | 68 | 6299 | 0.516 | 0.009 | 0.004 | 0.987 | 0.390 | 0.602 | 0.6336 | 0.3713 | |
| BPTKS | 68 | 2725218 | 0.941 | 0.019 | 0.645 | 0.336 | 0.817 | 0.164 | 0.3443 | 0.1903 | |
| PDPTKS | 68 | 4523562 | 0.060 | 0.004 | 0.672 | 0.324 | 0.081 | 0.915 | 1.0046 | 0.4498 | |
| PDPTLKS | 68 | 0 | . | . | . | . | . | . | 0.0000 | 0.0000 | |
| PDPTKP | 68 | 4523562 | 0.873 | 0.004 | 0.204 | 0.791 | 0.049 | 0.947 | 0.2986 | 0.1454 | |
| KONSPNG | 68 | 4370964 | 0.220 | 0.617 | 0.013 | 0.370 | 0.138 | 0.245 | 0.5705 | 0.3785 | |
| INVSPEND | 68 | 1105834 | 0.426 | 0.005 | 0.011 | 0.984 | 0.537 | 0.458 | 0.7370 | 0.4347 | |
| INVSKES | 68 | 21406 | 0.161 | 0.017 | 0.022 | 0.961 | 0.468 | 0.515 | 0.7239 | 0.3978 | |
| ASURANSI | 68 | 66589 | . | . | . | . | . | . | . | . | |
| TPENGKP | 68 | 5036490 | 0.665 | 0.509 | 0.008 | 0.482 | 0.048 | 0.443 | 0.4000 | 0.2349 | |
| PLUNKRED | 68 | 2.79144 | 0.267 | 0.043 | 0.386 | 0.571 | 0.002 | 0.955 | 0.2689 | 0.1380 | |

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Theil Relative Change Forecast Error Statistics

| Variable | N | Relative Change | | MSE Decomposition Proportions | | | | Inequality Coef | | |
|----------|----|-----------------|-------|-------------------------------|-------------|--------------|-------------|-----------------|--------|--------|
| | | MSE (R) | Corr | Bias (UM) | Reg (UR) | Dist (UD) | Var (US) | Covar (UC) | U1 | U |
| LAKS | 67 | 0.63407 | 0.433 | 0.087 | 0.026 | 0.886 | 0.569 | 0.343 | 0.9439 | 0.7286 |
| YKKS | 67 | 0.08447 | 0.346 | 0.491 | 0.252 | 0.257 | 0.022 | 0.486 | 1.8481 | 0.6456 |
| QTKS | 67 | 0.70436 | 0.353 | 0.003 | 0.003 | 0.993 | 0.400 | 0.597 | 0.9254 | 0.6532 |
| CTKKSP | 67 | 0.59076 | 0.788 | 0.103 | 0.122 | 0.775 | 0.002 | 0.895 | 0.6760 | 0.3381 |
| CTKKSP | 67 | 1.01741 | 0.816 | 0.133 | 0.187 | 0.680 | 0.484 | 0.384 | 0.6902 | 0.4574 |
| CTKKS | 67 | 0.33758 | 0.731 | 0.199 | 0.011 | 0.790 | 0.208 | 0.593 | 0.7549 | 0.4556 |
| TCTKKS | 67 | 0.32956 | 0.758 | 0.198 | 0.026 | 0.775 | 0.239 | 0.563 | 0.7299 | 0.4433 |
| CTKLKSPP | 67 | 73.41817 | 0.421 | 0.041 | 0.121 | 0.838 | 0.056 | 0.903 | 0.9491 | 0.5061 |
| CTKLKSIP | 67 | . | . | . | . | . | . | . | . | . |
| CTKLKS | 67 | 45.25695 | 0.647 | 0.005 | 0.032 | 0.962 | 0.075 | 0.920 | 0.7488 | 0.4104 |
| YTKKS | 67 | 2.22125 | 0.513 | 0.017 | 0.009 | 0.975 | 0.426 | 0.557 | 0.8546 | 0.5630 |
| QIPN | 67 | 0.91436 | 0.258 | 0.057 | 0.164 | 0.780 | 0.075 | 0.868 | 1.0754 | 0.5916 |
| BIPN | 67 | 0.91436 | 0.258 | 0.057 | 0.164 | 0.780 | 0.075 | 0.868 | 1.0754 | 0.5916 |
| QIPP | 67 | 0.96420 | 0.255 | 0.078 | 0.180 | 0.742 | 0.058 | 0.864 | 1.1029 | 0.5891 |
| BIPP | 67 | 0.96420 | 0.255 | 0.078 | 0.180 | 0.742 | 0.058 | 0.864 | 1.1029 | 0.5891 |
| QIPK | 67 | 1.06308 | 0.312 | 0.026 | 0.233 | 0.741 | 0.020 | 0.955 | 1.0779 | 0.5641 |
| BIPK | 67 | 1.01193 | 0.312 | 0.201 | 0.020 | 0.779 | 0.247 | 0.552 | 1.0517 | 0.6907 |
| QIPD | 67 | 0.76096 | 0.297 | 0.079 | 0.017 | 0.904 | 0.326 | 0.594 | 0.9850 | 0.6908 |
| BIPD | 67 | 0.46424 | 0.304 | 0.104 | 0.054 | 0.842 | 0.193 | 0.703 | 1.0143 | 0.6568 |
| BTKUKS | 67 | . | . | . | . | . | . | . | . | . |
| QIP | 67 | 0.89580 | 0.260 | 0.043 | 0.154 | 0.803 | 0.087 | 0.870 | 1.0581 | 0.5931 |
| BPRKS | 67 | 0.35216 | 0.315 | 0.010 | 0.113 | 0.877 | 0.115 | 0.875 | 0.9928 | 0.6013 |
| NPTKS | 67 | 0.67608 | 0.396 | 0.003 | 0.008 | 0.989 | 0.317 | 0.680 | 0.9090 | 0.6105 |
| BADMS | 67 | 0.67608 | 0.396 | 0.003 | 0.008 | 0.989 | 0.317 | 0.680 | 0.9090 | 0.6105 |
| BTRANS | 67 | 0.73946 | 0.386 | 0.004 | 0.001 | 0.995 | 0.393 | 0.603 | 0.9112 | 0.6375 |
| BMKUD | 67 | 0.71400 | 0.750 | 0.003 | 0.007 | 0.990 | 0.087 | 0.909 | 0.6509 | 0.3608 |
| BPTKS | 67 | 0.16299 | 0.879 | 0.012 | 0.319 | 0.668 | 0.597 | 0.391 | 0.5741 | 0.3698 |
| PDPTKS | 67 | 16275 | -1.00 | 0.015 | 0.985 | 0.000 | 0.003 | 0.982 | 1.8880 | 0.9999 |
| PDPTLKS | 67 | . | . | . | . | . | . | . | . | . |
| PDPTKP | 67 | 1.96397 | 0.364 | 0.005 | 0.394 | 0.601 | 0.010 | 0.985 | 1.1648 | 0.5556 |
| KONSPNG | 67 | 0.41615 | 0.632 | 0.570 | 0.003 | 0.427 | 0.068 | 0.363 | 1.1603 | 0.5941 |
| INVSPEND | 67 | . | . | . | . | . | . | . | . | . |
| INVSKES | 67 | 0.92032 | 0.445 | 0.423 | 0.421 | 0.156 | 0.163 | 0.414 | 2.2616 | 0.6573 |
| ASURANSI | 67 | . | . | . | . | . | . | . | . | . |
| TPENGKP | 67 | 0.25415 | 0.815 | 0.456 | 0.001 | 0.543 | 0.045 | 0.499 | 0.7686 | 0.4113 |
| PLUNKRED | 67 | 0.07533 | 0.377 | 0.025 | 0.580 | 0.395 | 0.115 | 0.861 | 1.4647 | 0.5869 |

NOTE: Percent error statistics for 15 variables were set to missing values because an actual

Lampiran 14. Program Komputer Validasi dengan Menghitung Koefisien Determinasi (R^2) pada Model Ekonomi Rumahtangga Petani Plasma Kelapa Sawit untuk Ketiga Pola PIR Menggunakan SAS/ETS Versi 6.12 Metode OLS

```

DATA R1;
SET D.LAILA (OBS=349);
BTKUKS = (CTKUKS*UPAHKS)/1000;
BPRKS = BIPN + BIPP + BIPK + BIPD + BTUKS + BPALKS ;
BPTKS = BADMS + BCKKS + BTRANS + BMKUD + BPRKS;
PDPTKS = NPTKS - BPTKS ;
PDPTLKS = PDPTLPG + PDPTNUT + PDPTTRNK + PDPTKRT;
IF DPIRKS1=0 AND DPIRKS2=1 THEN POLA=1;
IF DPIRKS1=1 AND DPIRKS2=0 THEN POLA=2;
IF DPIRKS1=0 AND DPIRKS2=0 THEN POLA=3;

ALAKS = LAKS;
AYKKS = YKKS;
AQTKS = QTKS ;
ACTKKSP = CTKKSP;
ACTKKSIP = CTKKSIP;
ACTKKS = CTKKS ;
ATCTKKS = TCTKKS;
ACTKLKSP = CTKLKSP;
ACTKLSSI = CTKLSSI;
ACTKLKS = CTKLKS;
AYTKKS = YTAKKS;
AQIPN = QIPN;
ABIPN = BIPN;
AQIPP = QIPP;
ABIPP = BIPP;
AQIPK = QIPK;
ABIPK = BIPK;
AQIPD = QIPD;
ABIPD = BIPD;
ABTUKS = BTUKS;
AQIP = QIP ;
ABTRANS = BTRANS;
ABMKUD = BMKUD;
ABPRKS = BPRKS;
ANPTKS = NPTKS;
ABADMS = BADMS;
ABPTKS = BPTKS;
APDPTKS = PDPTKS;
APDPTLKS = PDPTLKS;
APDPTKP = PDPTKP;
AKONSPNG= KONSPNG;
AINVSPEN = INVSPEND;
AINVSKES = INVSKE;
AASURANS = ASURANSI;
ATPENGKP = TPENGKP;
APLUNKRE = PLUNKRED;

KEEP N POLA KAB ALAKS AYKKS AQTKS ACTKKSP ACTKKSIP ACTKKS ATCTKKS ACTKLKSP
ACTKLSSI ACTKLKS AYTKKS AQIPN ABIPN AQIPP ABIPP AQIPK ABIPK
AQIPD ABIPD ABTUKS AQIP ABTRANS ABMKUD ABPRKS ANPTKS ABADMS ABPTKS APDPTKS
APDPTLKS APDPTKP AKONSPNG AINVSPEN AINVSKES AASURANS ATPENGKP APLUNKRE;
RUN;

DATA R2;
SET D.HS;

```

Lampiran 14. Lanjutan

```

BTKUKS = (CTKUKS*UPAHKS)/1000;
BPRKS = BIPN + BIPP + BIPK + BIPD + BTKUKS + BPALKS ;
BPTKS = BADMS + BCKKS + BTRANS + BMKUD + BPRKS;
PDPTKS = NPTKS - BPTKS ;
PDPTLKS = PDPTLPG + PDPTNUT + PDPTTRNK + PDPTKRT;

PLAKS      = LAKS;
PYKKS      = YKKS;
PQTKS      = QTKS;
PCTKKSP = CTKKSP;
PCTKKSIP = CTKKSIP;
PCTKKS    = CTKKS ;
PTCTKKS   = TCTKKS ;
PCTKLKSP = CTKLKSP;
PCTKLKI = CTKLKSI ;
PCTKLKS = CTKLKS ;
PYTKKS    = YTCKKS ;
PQIPN      = QIPN ;
PBIPN      = BIPN ;
PQIPP      = QIPP ;
PBIPP      = BIPP ;
PQIPK      = QIPK ;
PBIPK      = BIPK ;
PQIPD      = QIPD ;
PBIPD      = BIPD ;
PBTKUKS   = BTKUKS;
PQIP      = QIP ;
PBTRANS   = BTRANS;
PBMKUD   = BMKUD ;
PBPRKS   = BPRKS ;
PNPTKS   = NPTKS ;
PBADMS   = BADMS;
PBPTKS   = BPTKS;
PPDPTKS = PDPTKS ;
PPDPTLKS = PDPTLKS;
PPDPTKP = PDPTKP ;
PKONSPNG = KONSPNG;
PINVSPEN = INVSPEND;
PINVSKEs = INVSKEs ;
PASURANS = ASURANSI;
PTPENGKP = TPENGKP ;
PPLUNKRE = PLUNKRED ;

KEEP N PLAKS PYKKS PQTKS PCTKKSP PCTKKSIP PCTKKS PTCTKKS PCTKLKSP
PCTKLKI PCTKLKS PYTKKS PQIPN PBIPN PQIPP PBIPP PQIPK PBIPK
PQIPD PBIPD PBTKUKS PQIP PBTRANS PBMKUD PBPRKS PNPTKS PBADMS PBPTKS PPDPTKS
PPDPTLKS PPDPTKP PKONSPNG PINVSPEN PINVSKEs PASURANS PTPENGKP PPLUNKRE;
RUN;

PROC SORT DATA=R1; BY N; RUN;
PROC SORT DATA=R2; BY N; RUN;

DATA RR;
MERGE R1 R2; BY N;
RUN;

PROC SORT DATA=RR; BY POLA ;RUN;

PROC MODEL DATA=RR;

```

Lampiran 14. Lanjutan

```

ALAKS    =A10+A11*PLAKS;
AYKKS    =A20+A21*PYKKS;
AQTKS    =A30+A31*PQTKS;
ACTKKSP=A40+A41*PCTKKSP;
ACTKKSIP=A50+A51*PCTKKSI;
ACTKKS   =A60+A61*PCTKKS;
ATCTKKS  =A70+A71*PTCTKKS;
ACTKLKSP=A80+A81*PCTKLKSP;
ACTKLKSI =A90+A91*PCTKLKI;
ACTKLKS  =A100+A101*PCTKLKS;
AYTKKS   =A110+A111*PYTKKS;
AQIPN    =A120+A121*PQIPN;
ABIPN    =A130+A131*PBIPN;
AQIPP    =A140+A141*PQIPP;
ABIPP    =A150+A151*PBIPP;
AQIPK    =A160+A161*PQIPK;
ABIPK    =A170+A171*PBIPK;
AQIPD    =A180+A181*PQIPD;
ABIPD    =A190+A191*PBIPD;
ABTKUKS  =A200+A201*PBTKUKS;
AQIP     =A210+A211*PQIP;
ABTRANS  =A220+A221*PBTRANS;
ABMKUD   =A230+A231*PBMKUD;
ABPRKS   =A240+A241*PBPRKS;
ANPTKS   =A250+A251*PNPTKS;
ABADMS   =A260+A261*PBADMS;
ABPTKS   =A270+A271*PBPTKS;
APDPTKS  =A280+A281*PPDPTKS;
APDPTLKS =A290+A291*PPDPTLKS;
APDPTKP  =A300+A301*PPDPTKP;
AKONSPNG=A310+A311*PKONSPNG;
AINVSPEN =A320+A321*PINVSPEN;
AINVSKES =A330+A331*PINVSKES;
AASURANS=A340+A341*PASURANS;
ATPENGKP =A350+A351*PTPENGKP;
APLUNKRE =A360+A361*PPLUNKRE;

FIT ALAKS AYKKS AQTKS ACTKKSP ACTKKSIP ACTKKS ATCTKKS ACTKLKSP
ACTKLKSI ACTKLKS AYTKKS AQIPN ABIPN AQIPP ABIPP AQIPK ABIPK
AQIPD ABIPD ABTKUKS AQIP ABTRANS ABMKUD ABPRKS ANPTKS ABADMS ABPTKS
APDPTKS APDPTLKS APDPTKP AKONSPNG AINVSPEN AINVSKES AASURANS ATPENGKP APLUNKRE;

BY POLA;
RUN;
QUIT;

```

Lampiran 15. Hasil Validasi dengan Menghitung Koefisien Determinasi (R^2) pada Model Ekonomi Rumahtangga Petani Plasma Kelapa Sawit untuk Ketiga Pola PIR Menggunakan SAS/ETS Versi 6.12 Metode OLS

1. Pola Perusahaan Inti Rakyat Khusus (Pola PIR-Sus)

| Equation | Model | DF | | SSE | MSE | Root MSE | R-Square | Adj R-Sq |
|----------|-------|-----|------------|-----------|------------|----------|----------|----------|
| | | DF | Error | | | | | |
| ALAKS | 2 | 298 | 129.22874 | 0.43365 | 0.65852 | 0.7528 | 0.7519 | |
| AYKKS | 2 | 298 | 1371375918 | 4601932.6 | 2145.2 | 0.4944 | 0.4927 | |
| AQTKS | 2 | 298 | 3.35346E10 | 112532285 | 10608.1 | 0.7431 | 0.7422 | |
| ACTKKSP | 2 | 298 | 42222 | 141.68359 | 11.90309 | 0.5319 | 0.5303 | |
| ACTKKSIP | 2 | 298 | 41806 | 140.28784 | 11.84432 | 0.6048 | 0.6035 | |
| ACTKKS | 2 | 298 | 134221 | 450.40643 | 21.22278 | 0.6365 | 0.6352 | |
| ATCTKKS | 2 | 298 | 134198 | 450.32809 | 21.22094 | 0.8240 | 0.8234 | |
| ACTKLKSP | 2 | 298 | 937665 | 3146.5 | 56.09391 | 0.4664 | 0.4646 | |
| ACTKLKSI | 2 | 298 | 974523 | 3270.2 | 57.18577 | 0.4642 | 0.4624 | |
| ACTKLKS | 2 | 298 | 2553585 | 8569.1 | 92.56930 | 0.4693 | 0.4675 | |
| AYTKKS | 2 | 298 | 5823231 | 19541.0 | 139.78929 | 0.5722 | 0.5707 | |
| AQIPN | 2 | 298 | 3148962 | 10567.0 | 102.79585 | 0.5527 | 0.5512 | |
| ABIPN | 2 | 298 | 5545148 | 18607.9 | 136.41070 | 0.6057 | 0.6044 | |
| AQIPP | 2 | 298 | 3145111 | 10554.1 | 102.73298 | 0.5525 | 0.5510 | |
| ABIPP | 2 | 298 | 6823998 | 22899.3 | 151.32522 | 0.6345 | 0.6333 | |
| AQIPK | 2 | 298 | 2878336 | 9658.8 | 98.27943 | 0.5884 | 0.5870 | |
| ABIPK | 2 | 298 | 7306149 | 24517.3 | 156.57994 | 0.6179 | 0.6166 | |
| AQIPD | 2 | 298 | 3369 | 11.30467 | 3.36224 | 0.6009 | 0.5995 | |
| ABIPD | 2 | 298 | 6821805 | 22892.0 | 151.30090 | 0.6009 | 0.5995 | |
| ABTKUKS | 2 | 298 | 0 | 0 | 2.9504E-13 | 1.0000 | 1.0000 | |
| AQIP | 2 | 298 | 2996611 | 10055.7 | 100.27831 | 0.5721 | 0.5706 | |
| ABTRANS | 2 | 298 | 26989931 | 90570.2 | 300.94889 | 0.7676 | 0.7668 | |
| ABMKUD | 2 | 298 | 410799 | 1378.5 | 37.12843 | 0.7431 | 0.7422 | |
| ABPRKS | 2 | 298 | 73020275 | 245034.5 | 495.00957 | 0.7762 | 0.7754 | |
| ANPTKS | 2 | 298 | 4814372289 | 16155612 | 4019.4 | 0.7724 | 0.7717 | |
| ABADMS | 2 | 298 | 212313818 | 712462.5 | 844.07492 | 0.7724 | 0.7717 | |
| ABPTKS | 2 | 298 | 672575239 | 2256963.9 | 1502.3 | 0.8098 | 0.8091 | |
| APDPTKS | 2 | 298 | 2034469809 | 6827079.9 | 2612.9 | 0.7427 | 0.7418 | |
| APDPTLKS | 2 | 298 | 0 | 0 | 2.1612E-11 | 1.0000 | 1.0000 | |
| APDPTKP | 2 | 298 | 2033741556 | 6824636.1 | 2612.4 | 0.9891 | 0.9890 | |
| AKONSPNG | 2 | 298 | 596449206 | 2001507.4 | 1414.7 | 0.4606 | 0.4588 | |
| AINVSPEN | 2 | 298 | 422355867 | 1417301.6 | 1190.5 | 0.6222 | 0.6209 | |
| AINVSKES | 2 | 298 | 16852904 | 56553.4 | 237.80952 | 0.5574 | 0.5559 | |
| AASURANS | 2 | 298 | 70581313 | 236850.0 | 486.67242 | 0.4444 | 0.4425 | |
| ATPENGKP | 2 | 298 | 1315820253 | 4415504.2 | 2101.3 | 0.7762 | 0.7755 | |
| APUNKRE | 2 | 298 | 1725 | 5.78863 | 2.40596 | 0.6349 | 0.6337 | |

Lampiran 15. Lanjutan

2. Pola Perusahaan Inti Rakyat Transmigrasi (Pola PIR-Trans)

| OLS Estimation | | | | | | | | |
|--|----|-----|------------|-----------|------------|----------|----------|--|
| Nonlinear OLS Summary of Residual Errors | | | | | | | | |
| Equation | DF | DF | SSE | MSE | Root MSE | R-Square | Adj R-Sq | |
| ALAKS | 2 | 260 | 81.12586 | 0.31202 | 0.55859 | 0.4744 | 0.4724 | |
| AYKKS | 2 | 260 | 1827519408 | 7028920.8 | 2651.2 | 0.4663 | 0.4643 | |
| AQTKS | 2 | 260 | 4.15329E10 | 159741738 | 12638.9 | 0.3908 | 0.3885 | |
| ACTKKSPP | 2 | 260 | 20809 | 80.03496 | 8.94623 | 0.6286 | 0.6272 | |
| ACTKKSIP | 2 | 260 | 4542 | 17.46750 | 4.17941 | 0.3697 | 0.3673 | |
| ACTKKS | 2 | 260 | 28699 | 110.38010 | 10.50619 | 0.6193 | 0.6178 | |
| ATCTKKS | 2 | 260 | 28671 | 110.27268 | 10.50108 | 0.7250 | 0.7240 | |
| ACTKLKSP | 2 | 260 | 1405666 | 5406.4 | 73.52827 | 0.4921 | 0.4901 | |
| ACTKLKSI | 2 | 260 | 822443 | 3163.2 | 56.24270 | 0.5094 | 0.5075 | |
| ACTKLKS | 2 | 260 | 2148490 | 8263.4 | 90.90337 | 0.6633 | 0.6620 | |
| AYTKKS | 2 | 260 | 76571733 | 294506.7 | 542.68468 | 0.5851 | 0.5835 | |
| AQIPN | 2 | 260 | 3028273 | 11647.2 | 107.92222 | 0.4760 | 0.4739 | |
| ABIPN | 2 | 260 | 3887245 | 14950.9 | 122.27404 | 0.4935 | 0.4915 | |
| AQIPP | 2 | 260 | 2986897 | 11488.1 | 107.18239 | 0.4888 | 0.4869 | |
| ABIPP | 2 | 260 | 7253515 | 27898.1 | 167.02734 | 0.5786 | 0.5769 | |
| AQIPK | 2 | 260 | 3870616 | 14887.0 | 122.01223 | 0.5169 | 0.5151 | |
| ABIPK | 2 | 260 | 14719905 | 56615.0 | 237.93911 | 0.3747 | 0.3723 | |
| AQIPD | 2 | 260 | 744.43746 | 2.86322 | 1.69211 | 0.3051 | 0.3025 | |
| ABIPD | 2 | 260 | 861046 | 3311.7 | 57.54749 | 0.3210 | 0.3184 | |
| ABTKUKS | 2 | 260 | 0 | 0 | 4.6092E-13 | 1.0000 | 1.0000 | |
| AQIP | 2 | 260 | 3181201 | 12235.4 | 110.61370 | 0.5006 | 0.4987 | |
| ABTRANS | 2 | 260 | 35031534 | 134736.7 | 367.06494 | 0.4056 | 0.4033 | |
| ABMKUD | 2 | 260 | 983052 | 3781.0 | 61.48959 | 0.4336 | 0.4314 | |
| ABPRKS | 2 | 260 | 66611768 | 256199.1 | 506.16115 | 0.5705 | 0.5689 | |
| ANPTKS | 2 | 260 | 6368952804 | 24495972 | 4949.3 | 0.3948 | 0.3924 | |
| ABADMS | 2 | 260 | 280870819 | 1080272.4 | 1039.4 | 0.3948 | 0.3924 | |
| ABPTKS | 2 | 260 | 935560944 | 3598311.3 | 1896.9 | 0.6503 | 0.6489 | |
| APDPTKS | 2 | 260 | 2687934443 | 10338209 | 3215.3 | 0.4640 | 0.4619 | |
| APDPTLKS | 2 | 260 | 0 | 0 | 2.6229E-12 | 1.0000 | 1.0000 | |
| APDPTKP | 2 | 260 | 2766402289 | 10640009 | 3261.9 | 0.6798 | 0.6785 | |
| AKONSPNG | 2 | 260 | 139494200 | 536516.2 | 732.47263 | 0.1884 | 0.1853 | |
| AINVSPEN | 2 | 260 | 347959729 | 1338306.7 | 1156.9 | 0.5314 | 0.5296 | |
| AINVSKES | 2 | 260 | 7197030 | 27680.9 | 166.37573 | 0.4504 | 0.4482 | |
| AASURANS | 2 | 260 | 267348037 | 1028261.7 | 1014.0 | 0.5470 | 0.5453 | |
| ATPENGKP | 2 | 260 | 922466330 | 3547947.4 | 1883.6 | 0.5750 | 0.5734 | |
| APLUNKRE | 2 | 260 | 245.66230 | 0.94486 | 0.97204 | 0.4560 | 0.4539 | |

Lampiran 15. Lanjutan

3. Pola Perusahaan Inti Rakyat Kredit Usaha Kecil (Pola PIR-KUK)

| OLS Estimation | | | | | | | | |
|--|-------|-----|------------|-----------|------------|----------|----------|--|
| Nonlinear OLS Summary of Residual Errors | | | | | | | | |
| Equation | DF | DF | SSE | MSE | Root MSE | R-Square | Adj R-Sq | |
| Model | Error | | | | | | | |
| ALAKS | 2 | 134 | 171.00269 | 1.27614 | 1.12966 | 0.5198 | 0.5162 | |
| AYKKS | 2 | 134 | 122952541 | 917556.3 | 957.89158 | 0.2353 | 0.2296 | |
| AQTKS | 2 | 134 | 9594240003 | 71598806 | 8461.6 | 0.5158 | 0.5121 | |
| ACTKKSP | 2 | 134 | 11063 | 82.56143 | 9.08633 | 0.4434 | 0.4392 | |
| ACTKKSIP | 2 | 134 | 6070 | 45.29883 | 6.73044 | 0.4211 | 0.4168 | |
| ACTKKS | 2 | 134 | 24087 | 179.75161 | 13.40715 | 0.5991 | 0.5961 | |
| ATCTKKS | 2 | 134 | 23989 | 179.02552 | 13.38004 | 0.6018 | 0.5988 | |
| ACTKLKSP | 2 | 134 | 1490193 | 11120.8 | 105.45542 | 0.4989 | 0.4952 | |
| ACTKLKSI | 2 | 134 | 730102 | 5448.5 | 73.81409 | 0.5184 | 0.5148 | |
| ACTKLKS | 2 | 134 | 2227849 | 16625.7 | 128.94084 | 0.6231 | 0.6203 | |
| AYTKKS | 2 | 134 | 6725715 | 50191.9 | 224.03550 | 0.5252 | 0.5216 | |
| AQIPN | 2 | 134 | 2764078 | 20627.4 | 143.62259 | 0.5377 | 0.5342 | |
| ABIPN | 2 | 134 | 3344535 | 24959.2 | 157.98485 | 0.5377 | 0.5342 | |
| AQIPP | 2 | 134 | 2784169 | 20777.4 | 144.14361 | 0.5349 | 0.5314 | |
| ABIPP | 2 | 134 | 5456971 | 40723.7 | 201.80106 | 0.5349 | 0.5314 | |
| AQIPK | 2 | 134 | 2865408 | 21383.6 | 146.23146 | 0.5449 | 0.5415 | |
| ABIPK | 2 | 134 | 13241970 | 98820.7 | 314.35755 | 0.4742 | 0.4703 | |
| AQIPD | 2 | 134 | 1654 | 12.34049 | 3.51290 | 0.4965 | 0.4928 | |
| ABIPD | 2 | 134 | 1101655 | 8221.3 | 90.67144 | 0.4650 | 0.4610 | |
| ABTKUKS | 2 | 134 | 0 | 0 | 1.3277E-13 | 1.0000 | 1.0000 | |
| AQIP | 2 | 134 | 2763171 | 20620.7 | 143.59901 | 0.5443 | 0.5409 | |
| ABTRANS | 2 | 134 | 11543702 | 86147.0 | 293.50815 | 0.5360 | 0.5325 | |
| ABMKUD | 2 | 134 | 438948 | 3275.7 | 57.23398 | 0.6194 | 0.6166 | |
| ABPRKS | 2 | 134 | 72249992 | 539179.0 | 734.28812 | 0.5327 | 0.5292 | |
| ANPTKS | 2 | 134 | 909603841 | 6788088.4 | 2605.4 | 0.5439 | 0.5405 | |
| ABADMS | 2 | 134 | 40113529 | 299354.7 | 547.13316 | 0.5439 | 0.5405 | |
| ABPTKS | 2 | 134 | 312322145 | 2330762.3 | 1526.7 | 0.8054 | 0.8039 | |
| APDPTKS | 2 | 134 | 62400104 | 465672.4 | 682.40195 | 0.1616 | 0.1553 | |
| APDPTLKS | 2 | 134 | 0 | 0 | 3.5632E-12 | 1.0000 | 1.0000 | |
| APDPTKP | 2 | 134 | 150222195 | 1121061.2 | 1058.8 | 0.9262 | 0.9257 | |
| AKONSPNG | 2 | 134 | 162006427 | 1209003.2 | 1099.5 | 0.2986 | 0.2934 | |
| AINVSPEN | 2 | 134 | 75509886 | 563506.6 | 750.67077 | 0.5824 | 0.5793 | |
| AINVSKES | 2 | 134 | 1472062 | 10985.5 | 104.81193 | 0.4875 | 0.4837 | |
| AASURANS | 2 | 134 | 0 | 0 | 0 | . | . | |
| ATPENGKP | 2 | 134 | 224297255 | 1673860.1 | 1293.8 | 0.5497 | 0.5463 | |
| APUNKRE | 2 | 134 | 147.78990 | 1.10291 | 1.05020 | 0.3664 | 0.3617 | |

Lampiran 16. Contoh Program Komputer Simulasi Skenario 1 : Harga Tandan Buah Segar (HTBS) Dinaikkan Sebesar 15 Persen pada Model Ekonomi Rumahtangga Petani Plasma Kelapa sawit dengan Menggunakan SAS/ETS Versi 6.12 Prosedur SIMNLIN Metode Seidel

```

PROC ACCESS DBMS=EXCEL;
PROC ACCESS DBMS=EXCEL;
CREATE WORK._IMEX_.ACCESS;
PATH='C:\Disertasi\Disertasi mama\Data-newPIR.xls';
GETNAMES YES;
SCANTYPE=YES;
CREATE WORK._IMEX_.VIEW;
SELECT ALL;
DATA WORK.analisis;
SET WORK._IMEX_;
RUN;

DATA SIMULASI;
SET LAILA;
IF DPIRKS1=0 AND DPIRKS2=1 THEN POLA=1;
IF DPIRKS1=1 AND DPIRKS2=0 THEN POLA=2;
IF DPIRKS1=0 AND DPIRKS2=0 THEN POLA=3;
BIPN    = (QIPN*HIPN)/1000;
BIPP    = (QIPP*HIPP)/1000;
BIPK    = (QIPK*HIPK)/1000;
BIPD    = (QIPD*HIPD)/1000;
BTUKS   = (CTKUKS * UPAHKS)/1000;
BPRKS   = BIPN + BIPP + BIPK + BIPD + BTUKS + BPALKS;
QTKS    = LAKS*YKKS;
BTRANS  = (OATBS*QTKS)/1000;
BMKUD   = (FEEKUD*QTKS)/1000;
CTKKS   = CTKKSPP + CTKKSIP + CTKKSAN;
CTKLKS  = CTKLKSP + CTKLKSIP + CTKLKSAN;
TCTKKs  = CTKKS + CTUKS ;
YTKKS   = QTKS/TCTKKs ;
NPTKS   = (QTKS * HTBS)/1000;
BADMS   = 0.05*NPTKS;
BPTKS   = BADMS + BCKKS + BTRANS + BMKUD + BPRKS;
PDPTKS  = NPTKS - BPTKS ;
PDPTLKS = PDPTLPG + PDPTNUT + PDPTTRNK + PDPTKRT;
PDPTKP  = PDPTKS + PDPTLKS ;
TPENGKP = KONSPNG + KONSNPNG + INVSPEND + INVSKES + INVSPROD + ASURANSI+TABUNGAN;
QIP     = (QIPN*HIPN + QIPP*HIPP + QIPK*HIPK)/(HIPN+HIPP+HIPK);

```

Skenario 1 (SIM 1): Menaikkan Harga Tandan Buah Segar (HTBS) sebesar 15 persen:
 $HTBS = 1.15 \times HTBS;$
RUN;

```

PROC SORT DATA=SIMULASI; BY POLA; RUN;
PROC SimNlin DATA=simulasi type=2sls seidel maxiter=1500 Stats Simulate Outpredict
Theil Out=D;

```

Lampiran 16. Lanjutan

```

ENDO LAKS YKKS QTKS CTKKSPP CTKKSIP CTKKS TCTKKS CTKLKSPP CTKLKSIP
      CTKLKS YTKKS QIPN BIPN QIPP BIPP QIPK BIPK
      QIPD BIPD BTKUKS QIP BPRKS NPTKS BADMS BTRANS BMKUD BPTKS
      PDPTKS PDPTLKS PDPTKP KONSPNG INVSPEND INVSKES ASURANSI TPENGKP PLUNKRED;

EXO UMPP UMIPP LPDPP LPDISS PUTKS JAKP JASEKL JABALT
      UTKS JBTKS JRKPKS ASETLHN LALKS HTBS
      CTKKSAN CTKLKSAN CTKUKS UPAHKS UPAHINTI
      OATBS FEEKUD HIPN HIPP HIPK HIPD BPALKS BCKKS
      KONSNG INVSPROD TABUNGAN NKKS PDPTLPG PDPTNUT
      PDPTTRNK PDPTKRT DADPP DKSUPP DPIRKS1 DPIRKS2;

LAKS =   TCTKKS    *    0.012655 +
          ASETLHN   *   0.000059205 +
          PDPTKS    *   0.000080672 +
          PDPTLPG    *  -0.000023513 +
          PDPTNUT    *   0.000049262 +
          DKSUPP     *    0.907658 ;

YKKS =   HTBS      *   14.468862 +
          QIP       *    6.065497 +
          CTKKS     *   12.762090 +
          CTKUKS    *   15.393833 +
          JBTKS     *    1.221939 +
          YTKKS     *    4.938497 ;

CTKKSSPP=UPAHKS   *    0.000659 +
          UPAHINTI  *  -0.000497 +
          LAKS      *    2.237535 +
          UTKS      *    1.845044 +
          CTKKSAN   *  -0.012351 +
          CTKUKS    *  -0.099424 +
          UMPP      *  -0.063077 +
          PUTKS     *    0.122672 +
          DADPP     *  -1.324501 ;

CTKKSIPLAKS      *   2.010297 +
          UTKS      *   1.486234 +
          CTKKSAN   *  -0.010353 +
          CTKUKS    *  -0.063286 +
          UMIPP     *  -0.156511 +
          JABALT    *  -3.251284 +
          PUTKS     *   0.588503 +
          DADPP     *  -4.328727 ;

CTKLKSPP=UPAHINTI *   0.005079 +
          PDPTNUT   *   0.002356 +
          LALKS     *   3.286873 +
          TPENGKP   *   0.001951 +
          PUTKS     *   4.676081 +
          LPDPP     *   1.096507 ;

```

Lampiran 16. Lanjutan

```

CTKLKSIP=UPAHINTI * 0.001102 +
PDPTNUT * 0.003748 +
UPAHKS * -0.001287 +
LAKS * -5.065189 +
JABALT * -15.513576 +
PUTKS * 6.974456 +
LPDIPIP * 7.906389 ;
QIPN= HIPN/HTBS * -11.081188 +
UPAHKS * 0.008232 +
LAKS * 90.350345 +
UTKS * 6.768053 +
PDPTNUT * 0.001680 +
PDPTLPG * 0.001483 +
KONSPNG * -0.023723 +
INVSKES * -0.072343 +
DPIRKS1 * 98.095438 ;
QIPP = HIPP * -0.010178 +
UPAHKS * 0.008482 +
LAKS * 87.953180 +
UTKS * 5.786690 +
PDPTNUT * 0.001235 +
PDPTLPG * 0.001567 +
KONSPNG * -0.025730 +
INVSKES * -0.067316 +
DPIRKS1 * 103.947562 ;
QIPK = HIPK * -0.093712 +
UPAHKS * 0.008385 +
HTBS * 0.288665 +
LAKS * 98.632993 +
PDPTNUT * 0.001850 +
KONSPNG * -0.004330 +
INVSKES * -0.080489 +
DPIRKS1 * 115.453501 ;
QIPD = HIPD * -0.000038868 +
UPAHKS * 0.000028634 +
LAKS * 2.359321 +
UTKS * 0.048104 +
PDPTNUT * 0.000085391 +
PDPTLPG * 0.000033209 ;
KONSPNG = JAKP * 357.576363 +
PDPTKS * 0.027399 +
PDPTLPG * 0.073536 +
PDPTNUT * 0.012044 +
PDPTTRNK * 0.026828 +
PDPTKRT * 0.031345 +
ASURANSI * -0.053203 +
DADPP * 154.057719 ;

```

Lampiran 16. Lanjutan

```

INVSPEND=JASEKL      * 238.553352   +
PDPTKS              * 0.046680   +
PDPTLPG              * 0.052510   +
PDPTNUT              * 0.072239   +
PDPTTRNK             * 0.333389   +
INVSProd             * -0.137273   +
ASURANSI              * -0.049379   ;
INVSkes = JAKP        * 24.186345   +
JABALT               * 18.237876   +
PDPTKS              * 0.019407   +
PDPTKRT              * 0.000665   ;
ASURANSI=NPTKS       * 0.077482   +
PDPTLPG              * 0.013919   +
PDPTNUT              * 0.024615   +
PDPTKRT              * 0.001262   +
INVSPEND             * -0.177096   +
INVSProd             * -0.030675   +
BCKKS                * -0.207440   ;
PLUNKRED =NKKS        * 0.000260   +
QTKS                 * -0.000010193 +
HTBS                 * -0.006895   +
FEEKUD               * 0.171163   +
TPENGKP              * 0.000040620 +
JRKPKS               * 0.425815   +
CTKLKS               * 0.004852   +
DPIRKS2              * 2.874036   ;

QTKS     = LAKS * YKKS;
CTKKS    = CTKKSPP + CTKKSIP + CTKKSAN;
TCTKKS   = CTKKS + CTKUKS;
CTKLKS   = CTKLKSP + CTKLKSIP + CTKLKSAN;
YTKKS    = QTKS/TCTKKS ;
BIPN     = (QIPN*HIPN)/1000;
BIPP     = (QIPP*HIPP)/1000;
BIPK     = (QIPK*HIPN)/1000;
BIPD     = (QIPD*HIPD)/1000;
BTKUKS   = (CTKUKS*UPAHKS)/1000;
QIP      = (QIPN*HIPN + QIPP*HIPP + QIPK*HIPK) / (HIPN+HIPP+HIPK);
BTRANS   = (OATBS*QTKS)/1000 ;
BMKUD   = (FEEKUD*QTKS)/1000;
BPRKS   = BIPN + BIPP + BIPK + BIPD + BTUKS + BPALKS ;
NPTKS   = (QTKS*HTBS)/1000;
BADMS   = 0.05*NPTKS;
BPTKS   = BADMS + BCKKS + BTRANS + BMKUD + BPRKS;
PDPTKS  = NPTKS - BPTKS ;
PDPTLKS = PDPTLPG + PDPTNUT + PDPTTRNK + PDPTKRT;
PDPTKP  = PDPTKS + PDPTLKS;
TPENGKP = KONSPNG + KONSNPG + INVSPEND + INVSkes + INVSProd + ASURANSI+TABUNGAN;
RANGE N 1 TO 349;
BY POLA;
RUN;
QUIT;

```

Lampiran 17. Contoh Hasil Simulasi Skenario 1 : Harga Tandan Buah Segar (HTBS) Dinaikkan Sebesar 15 Persen pada Model Ekonomi Rumahtangga Petani Plasma Kelapa Sawit dengan Menggunakan SAS/ETS Versi 6.12 Prosedur SIMNLIN Metode Seidel

SIMNLIN Procedure

Model Summary

| | |
|-----------------|----|
| Model Variables | 75 |
| Endogenous | 36 |
| Exogenous | 39 |
| RANGE Variable | N |
| Equations | 36 |

| | |
|----------------------|----|
| Number of Statements | 36 |
|----------------------|----|

SIMNLIN Procedure
Simultaneous Simulation

----- POLA=1 -----

WARNING: The end of the BY group within DATA=SIMULASI was reached at N=150 which is before the specified RANGE limit N=349.

NOTE: Execution stopped at observation number 194 with N=150.

Solution Summary

| | |
|--------------------|------------|
| Dataset Option | Dataset |
| DATA= | SIMULASI |
| OUT= | D |
| Variables Solved | 36 |
| Solution RANGE | N |
| First | 1 |
| Last Requested | 349 |
| Solved | 150 |
| Solution Method | SEIDEL |
| CONVERGE= | 1E-8 |
| Maximum CC | 9.92147E-9 |
| Maximum Iterations | 17 |
| Total Iterations | 1845 |
| Average Iterations | 12.30 |

| | |
|------------------------|-----|
| Observations Processed | |
| Read | 150 |
| Solved | 150 |
| First | 45 |
| Last | 194 |

Lampiran 17. Lanjutan

| The SAS System | | | | | | |
|-----------------------------|-----|------|----------|----------|-----------|----------|
| SIMNLIN Procedure | | | | | | |
| Simultaneous Simulation | | | | | | |
| <hr/> | | | | | | |
| ----- POLA=1 ----- | | | | | | |
| Solution Range N = 1 To 150 | | | | | | |
| Descriptive Statistics | | | | | | |
| | | | | | | |
| Variable | | Nobs | N | Actual | Predicted | |
| | | | | Mean | Mean | Std |
| | | | | Std | | Std |
| LAKS | 150 | 150 | 2.5333 | 1.3244 | 2.7257 | 0.9221 |
| YKKS | 150 | 150 | 10183 | 3017 | 10315 | 1088 |
| QTKS | 150 | 150 | 26813 | 20928 | 28992 | 15280 |
| CTKKSP | 150 | 150 | 36.8867 | 17.3973 | 36.6070 | 4.1480 |
| CTKKSP | 150 | 150 | 29.3867 | 18.8412 | 29.5495 | 6.7170 |
| CTKKSP | 150 | 150 | 72.4933 | 35.1989 | 72.3765 | 17.7763 |
| TCTKKS | 150 | 150 | 91.3067 | 50.5785 | 91.1898 | 39.9797 |
| CTKLKSPP | 150 | 150 | 149.3667 | 76.7903 | 134.6671 | 26.8936 |
| CTKLKSIP | 150 | 150 | 139.5200 | 78.1228 | 118.6507 | 37.2092 |
| CTKLKS | 150 | 150 | 288.8867 | 127.0722 | 253.3178 | 58.2413 |
| YTKKS | 150 | 150 | 334.0364 | 213.7152 | 327.6275 | 96.6156 |
| QIPN | 150 | 150 | 304.3333 | 153.6946 | 361.8892 | 79.2990 |
| BIPN | 150 | 150 | 392.6433 | 217.2507 | 462.4133 | 131.2691 |
| QIPP | 150 | 150 | 302.0000 | 153.5792 | 357.7777 | 77.9473 |
| BIPP | 150 | 150 | 420.6383 | 250.3187 | 492.7203 | 169.8405 |
| QIPK | 150 | 150 | 302.3333 | 153.1916 | 327.0246 | 89.9763 |
| BIPK | 150 | 150 | 423.4133 | 253.3045 | 416.7064 | 134.8793 |
| QIPD | 150 | 150 | 5.7200 | 5.3220 | 6.0393 | 2.1633 |
| BIPD | 150 | 150 | 257.4000 | 239.4903 | 271.7690 | 97.3480 |
| BTKUKS | 150 | 150 | 211.2167 | 430.3585 | 211.2167 | 430.3585 |
| QIP | 150 | 150 | 302.8503 | 153.2929 | 348.4776 | 81.5365 |
| BPRKS | 150 | 150 | 1740 | 1046 | 1890 | 876.2429 |
| NPTKS | 150 | 150 | 9852 | 8426 | 12108 | 6988 |
| BADMS | 150 | 150 | 492.6000 | 421.3013 | 605.4056 | 349.3845 |
| BTRANS | 150 | 150 | 746.1333 | 624.2964 | 798.5687 | 442.4694 |
| BMKUD | 150 | 150 | 93.8467 | 73.2489 | 101.4711 | 53.4793 |
| BPTKS | 150 | 150 | 3150 | 2161 | 3472 | 1767 |
| PDPTKS | 150 | 150 | 6702 | 6485 | 8636 | 5326 |
| PDPTLKS | 150 | 150 | 7021 | 23920 | 7021 | 23920 |
| PDPTKP | 150 | 150 | 13722 | 25374 | 15656 | 24586 |
| KONSPNG | 150 | 150 | 4208 | 1926 | 2203 | 1085 |
| INVSPEND | 150 | 150 | 1016 | 1937 | 1157 | 915.4215 |
| INVSKES | 150 | 150 | 266.3000 | 357.4633 | 289.5253 | 104.3659 |
| ASURANSI | 150 | 150 | 489.6192 | 652.8978 | 754.1686 | 501.1383 |
| TPENGKP | 150 | 150 | 8000 | 5168 | 6424 | 4134 |
| PLUNKRED | 150 | 150 | 7.2800 | 3.9817 | 6.6472 | 1.9819 |

Lampiran 17. Lanjutan

```
SIMNLIN Procedure
Simultaneous Simulation
----- POLA=2 -----
Solution Summary
Dataset Option      Dataset
DATA=              SIMULASI
OUT=               D

Variables Solved    36

Solution RANGE      N
First Requested     1
      Solved        151
Last  Requested     349
      Solved        281

Solution Method     SEIDEL
CONVERGE=           1E-8
Maximum CC          9.99313E-9
Maximum Iterations   15
Total Iterations    1601
Average Iterations  12.22

Observations Processed
Read                131
Solved               131
First                195
Last                 325
```

Lampiran 17. Lanjutan

| SIMNLIN Procedure | | | | | | |
|-------------------------------|------|-----|----------|----------|----------|----------|
| Simultaneous Simulation | | | | | | |
| ----- POLA=2 ----- | | | | | | |
| Solution Range N = 151 To 281 | | | | | | |
| Descriptive Statistics | | | | | | |
| Actual Predicted | | | | | | |
| Variable | Nobs | N | Mean | Std | Mean | Std |
| LAKS | 131 | 131 | 2.2595 | 0.7705 | 2.3829 | 0.6721 |
| YKKS | 131 | 131 | 16013 | 3629 | 16760 | 665.5012 |
| QTKS | 131 | 131 | 36327 | 16193 | 40299 | 13689 |
| CTKKSP | 131 | 131 | 21.4885 | 14.6804 | 26.0743 | 5.5501 |
| CTKKSP | 131 | 131 | 13.0229 | 5.2645 | 15.2555 | 2.5125 |
| CTKKSP | 131 | 131 | 37.1908 | 17.0276 | 44.0093 | 10.2079 |
| TCTKKS | 131 | 131 | 41.2214 | 20.0259 | 48.0398 | 15.2630 |
| CTKLKSPP | 131 | 131 | 139.5115 | 103.1725 | 113.5866 | 14.5146 |
| CTKLKSIP | 131 | 131 | 44.7328 | 80.2991 | 70.1761 | 25.9650 |
| CTKLKS | 131 | 131 | 202.1069 | 156.6596 | 201.6252 | 70.0277 |
| YTKKS | 131 | 131 | 1141 | 842.5076 | 872.5512 | 265.2477 |
| QIPN | 131 | 131 | 383.2061 | 149.0819 | 433.4566 | 75.9709 |
| BIPN | 131 | 131 | 432.8244 | 171.8008 | 490.1390 | 95.2857 |
| QIPP | 131 | 131 | 387.7863 | 149.9156 | 437.3709 | 76.3028 |
| BIPP | 131 | 131 | 600.9733 | 257.2896 | 678.6288 | 169.5613 |
| QIPK | 131 | 131 | 393.8931 | 175.5511 | 425.0458 | 89.2798 |
| BIPK | 131 | 131 | 717.8626 | 300.8961 | 480.7774 | 108.8426 |
| QIPD | 131 | 131 | 4.8130 | 2.0299 | 5.4647 | 1.6298 |
| BIPD | 131 | 131 | 161.9359 | 69.8396 | 184.5432 | 54.8202 |
| BTKUKS | 131 | 131 | 64.4656 | 240.7235 | 64.4656 | 240.7235 |
| QIP | 131 | 131 | 388.9596 | 156.5246 | 430.9987 | 81.7982 |
| BPRKS | 131 | 131 | 2013 | 772.3481 | 1934 | 520.7833 |
| NPTKS | 131 | 131 | 14427 | 6362 | 18432 | 6363 |
| BADMS | 131 | 131 | 721.3718 | 318.0933 | 921.6206 | 318.1392 |
| BTRANS | 131 | 131 | 1072 | 476.1072 | 1192 | 423.1952 |
| BMKUD | 131 | 131 | 176.5626 | 81.7041 | 195.6558 | 73.6914 |
| BPTKS | 131 | 131 | 4684 | 2508 | 4944 | 2106 |
| PDPTKS | 131 | 131 | 9743 | 5314 | 13488 | 5779 |
| PDPTLKS | 131 | 131 | 2389 | 4024 | 2389 | 4024 |
| PDPTKP | 131 | 131 | 12132 | 6442 | 15877 | 7276 |
| KONSPNG | 131 | 131 | 3568 | 813.0634 | 1884 | 412.7014 |
| INVSPEND | 131 | 131 | 987.1450 | 1690 | 1009 | 410.5556 |
| INVSKES | 131 | 131 | 299.4656 | 224.4148 | 368.0345 | 111.7510 |
| ASURANSI | 131 | 131 | 957.7008 | 1507 | 1196 | 660.7056 |
| TPENGKP | 131 | 131 | 7841 | 5155 | 6485 | 3720 |
| PLUNKRED | 131 | 131 | 3.6947 | 1.3179 | 3.2812 | 0.6029 |

Lampiran 17. Lanjutan

```

SIMNLIN Procedure

Simultaneous Simulation

----- POLA=3 -----

WARNING: The input data set DATA=SIMULASI does not contain an observation for the
specified start of the RANGE N=1. Processing will start with N=282 at observation
number 326.

Solution Summary

      Dataset Option      Dataset
      DATA=             SIMULASI
      OUT=              D

      Variables Solved      36

      Solution RANGE      N
      First Requested     1
      Solved                282
      Last                  349

      Solution Method     SEIDEL
      CONVERGE=           1E-8
      Maximum CC          9.53018E-9
      Maximum Iterations   15
      Total Iterations     824
      Average Iterations   12.12

      Observations Processed
      Read                 68
      Solved                68
      First                 326
      Last                  393

```

Lampiran 17. Lanjutan

| SIMNLIN Procedure | | | | | | |
|-------------------------------|------|--------|----------|----------|-----------|----------|
| Simultaneous Simulation | | | | | | |
| ----- POLA=3 ----- | | | | | | |
| Solution Range N = 282 To 349 | | | | | | |
| Descriptive Statistics | | | | | | |
| | | Actual | | | Predicted | |
| Variable | Nobs | N | Mean | Std | Mean | Std |
| LAKS | 68 | 68 | 2.3824 | 1.6302 | 1.9322 | 0.3567 |
| YKKS | 68 | 68 | 6679 | 1095 | 8655 | 1022 |
| QTKS | 68 | 68 | 15975 | 12160 | 16835 | 4415 |
| CTKKSP | 68 | 68 | 24.2794 | 12.1788 | 17.1286 | 2.0677 |
| CTKKSP | 68 | 68 | 13.4559 | 8.8460 | 9.8548 | 2.5995 |
| CTKKSP | 68 | 68 | 42.9265 | 21.1740 | 32.1746 | 9.6899 |
| TCTKKS | 68 | 68 | 44.2500 | 21.2022 | 33.4981 | 10.9271 |
| CTKLKSP | 68 | 68 | 107.6765 | 148.9736 | 102.9259 | 13.7056 |
| CTKLKSP | 68 | 68 | 83.0735 | 106.3612 | 77.9786 | 23.4029 |
| CTKLKSP | 68 | 68 | 210.7500 | 210.0236 | 200.9046 | 68.6156 |
| YTKKS | 68 | 68 | 411.3634 | 325.1287 | 533.4430 | 156.1009 |
| QIPN | 68 | 68 | 238.2353 | 211.2273 | 264.8760 | 31.2862 |
| BIPN | 68 | 68 | 262.0588 | 232.3501 | 291.3636 | 34.4149 |
| QIPP | 68 | 68 | 238.9706 | 211.3559 | 269.3504 | 30.7587 |
| BIPP | 68 | 68 | 334.5588 | 295.8982 | 377.0905 | 43.0621 |
| QIPK | 68 | 68 | 220.9559 | 216.7695 | 231.3721 | 38.8337 |
| BIPK | 68 | 68 | 441.9118 | 433.5389 | 254.5093 | 42.7170 |
| QIPD | 68 | 68 | 5.7647 | 4.9509 | 4.3862 | 0.9463 |
| BIPD | 68 | 68 | 185.4118 | 123.9620 | 143.7002 | 28.9803 |
| BTKUKS | 68 | 68 | 19.8529 | 112.2330 | 19.8529 | 112.2330 |
| QIP | 68 | 68 | 230.7843 | 212.7113 | 251.3774 | 32.0447 |
| BPRKS | 68 | 68 | 1279 | 1074 | 1122 | 186.6146 |
| NPTKS | 68 | 68 | 5603 | 3858 | 7028 | 2856 |
| BADMS | 68 | 68 | 280.1596 | 192.8974 | 351.4076 | 142.7822 |
| BTRANS | 68 | 68 | 505.6397 | 430.8833 | 524.1557 | 145.1711 |
| BMKUD | 68 | 68 | 84.9132 | 92.7742 | 85.7935 | 47.8093 |
| BPTKS | 68 | 68 | 3867 | 2854 | 3801 | 1383 |
| PDPTKS | 68 | 68 | 1736 | 1221 | 3227 | 2366 |
| PDPTLKS | 68 | 68 | 4241 | 4038 | 4241 | 4038 |
| PDPTKP | 68 | 68 | 5977 | 3904 | 7468 | 4549 |
| KONSPNG | 68 | 68 | 3425 | 1313 | 1811 | 532.6041 |
| INVSPEND | 68 | 68 | 840.2941 | 1162 | 951.2335 | 384.8375 |
| INVSKES | 68 | 68 | 140.4412 | 146.4142 | 184.2497 | 53.9824 |
| ASURANSI | 68 | 68 | 0 | 0 | 69.5059 | 279.0027 |
| TPENGKP | 68 | 68 | 5208 | 2101 | 3817 | 1623 |
| PLUNKRED | 68 | 68 | 6.0735 | 1.3194 | 5.3550 | 1.4285 |

Lampiran 18. Rekapitulasi Dampak Faktor Eksternal dan Internal terhadap Kinerja Ekonomi Rumahtangga Petani Plasma Kelapa Sawit Pola PIR-Sus di Sumatera Selatan

| Variabel Endogen | Nilai Dasar | S1 (%) | S 2 (%) | S 3 (%) | S 4 (%) | S5 (%) |
|------------------------------|-------------|--------|---------|---------|---------|--------|
| Luas Areal Kebun Plasma KS | 2.6715 | 2.03 | -0.29 | -0.74 | 0.03 | 0.04 |
| Produktivitas Kebun KS | 9649.00 | 6.90 | -0.65 | -0.07 | 0.80 | 0.46 |
| Total Produksi Kelapa Sawit | 26607.00 | 8.96 | -0.92 | -0.83 | 0.81 | 0.47 |
| Curahan TK Petani di Kbn KS | 36.4859 | 0.33 | -0.05 | -0.12 | 0.52 | 3.19 |
| Curahan TK Istri di Kebun KS | 29.4408 | 0.37 | -0.05 | -0.14 | 0.01 | 0.01 |
| Curhn TK Kel di Kebun KS | 72.1467 | 0.32 | -0.05 | -0.12 | 0.26 | 1.62 |
| Total Curahan TK di Kebun KS | 90.96 | 0.25 | -0.04 | -0.09 | 0.21 | 1.28 |
| Curhn TK Petani Luar KS | 133.4854 | 0.89 | 2.11 | -0.17 | 5.30 | 3.11 |
| Curhn TK Istri Luar KS | 118.9247 | -0.23 | 0.03 | 0.08 | -0.09 | -1.91 |
| Curhn TK Kel Petani Luar KS | 252.4101 | 0.36 | 1.13 | -0.05 | 2.76 | 0.74 |
| Produktivitas TK di Kebun KS | 300.9095 | 8.88 | -0.91 | -0.70 | 0.56 | -1.04 |
| Penggunaan Pupuk N | 355.8997 | 1.68 | -2.24 | -0.07 | 4.12 | 2.07 |
| Biaya Penggunaan Pupuk N | 454.7398 | 1.69 | 17.31 | -0.07 | 4.21 | 22.59 |
| Penggunaan Pupuk P | 356.9378 | 0.24 | -0.81 | -0.06 | 4.23 | 3.61 |
| Biaya Penggunaan Pupuk P | 491.5385 | 0.24 | 18.99 | -0.06 | 4.36 | 24.44 |
| Penggunaan Pupuk K | 309.6082 | 5.63 | -8.41 | -0.21 | 4.82 | -3.35 |
| Biaya Penggunaan Pupuk K | 394.3029 | 5.68 | 9.64 | -0.22 | 4.94 | 15.85 |
| Penggunaan Pestisida | 5.9117 | 2.16 | -6.23 | -0.79 | 0.89 | -5.02 |
| Biaya Penggunaan Pestisida | 266.0249 | 2.16 | 12.52 | -0.79 | 0.89 | 13.97 |
| Biaya Penggunaan TK Upahan | 211.2167 | 0.00 | 0.00 | 0.00 | 15.00 | 15.00 |
| Penggunaan Pupuk | 340.3398 | 2.39 | -3.66 | -0.11 | 4.38 | 0.92 |
| Biaya Produksi di Kebun KS | 1853.00 | 2.00 | 13.11 | -0.22 | 5.07 | 19.10 |
| Nilai Produksi Total | 9653.00 | 25.43 | -0.94 | -0.85 | 0.83 | 0.49 |
| Biaya Administrasi KS | 482.6465 | 25.43 | -0.94 | -0.85 | 0.83 | 0.48 |
| Biaya Transportasi TBS | 732.3133 | 9.05 | -0.94 | 98.28 | 0.84 | 0.49 |
| Biaya Manajemen KUD | 93.126 | 8.96 | -0.93 | 19.00 | 0.81 | 0.47 |
| Biaya Total Kelapa Sawit | 3238.00 | 7.23 | 7.13 | 22.54 | 3.24 | 11.15 |
| Pendapatan dari KS | 6415.00 | 34.62 | -5.02 | -12.66 | -0.39 | -4.89 |
| Pendapatan dari Luar KS | 7021.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pendapatan Keluarga Petani | 13435.00 | 16.53 | -2.39 | -6.04 | -0.18 | -2.33 |
| Pengel utk Konsumsi Pangan | 2158.00 | 2.09 | -0.37 | -0.93 | -0.05 | -0.37 |
| Pengel Investasi Pendidikan | 1099.00 | 5.28 | -0.82 | -2.09 | -0.09 | -0.82 |
| Pengel Investasi Kesehatan | 248.7578 | 16.39 | -2.37 | -5.99 | -0.18 | -2.32 |
| Pengel untuk Asuransi | 554.7854 | 35.94 | -1.09 | -0.46 | 1.27 | 1.04 |
| Total Pengeluaran Kel Petani | 6080.00 | 5.66 | -0.46 | -0.99 | 0.08 | -0.28 |
| Periode Lunas Kredit | 7.0247 | -5.37 | 0.22 | 1.70 | 0.45 | 0.10 |

Keterangan: Simulasi 1(S1): Harga produk TBS naik 15%

Simulasi 2 (S2): Harga pupuk dan pestisida naik 20%

Simulasi 3 (S3): Ongkos angkut naik 100% dan fee KUD naik 20%

Simulasi 4 (S4): Upah tenaga kerja di kebun plasma naik 15%

Simulasi 5 (S5): Kombinasi S2, S3 dan S4

Lampiran 18. Lanjutan

| Variabel Endogen | Nilai Dasar | S6 (%) | S 7 (%) | S 8 (%) | S 9 (%) |
|------------------------------|-------------|--------|---------|---------|---------|
| Luas Areal Kebun Plasma KS | 2.6715 | 0.92 | 50.00 | -3.72 | 11.63 |
| Produktivitas Kebun KS | 9649.00 | 6.99 | 7.65 | 1.60 | 11.53 |
| Total Produksi Kelapa Sawit | 26607.00 | 7.83 | 59.86 | -2.83 | 25.99 |
| Curahan TK Petani di Kbn KS | 36.4859 | 0.66 | 6.92 | 4.52 | 1.90 |
| Curahan TK Istri di Kebun KS | 29.4408 | 0.17 | 7.71 | 3.37 | 2.12 |
| Curhn TK Kel di Kebun KS | 72.1467 | 0.40 | 6.64 | 20.00 | 50.00 |
| Total Curahan TK di Kebun KS | 90.96 | 0.32 | 5.27 | -2.77 | 40.23 |
| Curhn TK Petani Luar KS | 133.4854 | 8.29 | 5.67 | -2.36 | 1.66 |
| Curhn TK Istri Luar KS | 118.9247 | -0.20 | -4.81 | 0.42 | -1.32 |
| Curhn TK Kel Petani Luar KS | 252.4101 | 4.29 | 0.73 | -1.05 | -10.00 |
| Produktivitas TK di Kebun KS | 300.9095 | 7.65 | 44.85 | 12.28 | -8.28 |
| Penggunaan Pupuk N | 355.8997 | 3.77 | 26.33 | -2.54 | 6.87 |
| Biaya Penggunaan Pupuk N | 454.7398 | 24.64 | 26.44 | -2.76 | 6.63 |
| Penggunaan Pupuk P | 356.9378 | 3.58 | 25.56 | -2.46 | 6.67 |
| Biaya Penggunaan Pupuk P | 491.5385 | 24.43 | 25.78 | -2.85 | 6.32 |
| Penggunaan Pupuk K | 309.6082 | 1.79 | 33.63 | -3.17 | 8.89 |
| Biaya Penggunaan Pupuk K | 394.3029 | 22.09 | 33.89 | -3.47 | 8.59 |
| Penggunaan Pestisida | 5.9117 | -4.09 | 45.03 | -3.97 | 12.40 |
| Biaya Penggunaan Pestisida | 266.0249 | 15.09 | 45.04 | -3.97 | 12.40 |
| Biaya Penggunaan TK Upahan | 211.2167 | 15.00 | 0.00 | -100.00 | 0.00 |
| Penggunaan Pupuk | 340.3398 | 3.08 | 28.33 | -2.71 | 7.43 |
| Biaya Produksi di Kebun KS | 1853.00 | 21.10 | 26.98 | -14.14 | 6.91 |
| Nilai Produksi Total | 9653.00 | 24.12 | 60.85 | -3.06 | 25.46 |
| Biaya Administrasi KS | 482.6465 | 24.12 | 60.85 | -3.06 | 25.46 |
| Biaya Transportasi TBS | 732.3133 | 115.89 | 60.18 | -3.05 | 25.18 |
| Biaya Manajemen KUD | 93.126 | 29.39 | 59.85 | -2.83 | 25.99 |
| Biaya Total Kelapa Sawit | 3238.00 | 42.71 | 39.84 | -9.33 | 14.21 |
| Pendapatan dari KS | 6415.00 | 14.73 | 71.46 | 0.11 | 31.15 |
| Pendapatan dari Luar KS | 7021.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pendapatan Keluarga Petani | 13435.00 | 7.03 | 34.12 | 0.05 | 14.88 |
| Pengel utk Konsumsi Pangan | 2158.00 | 0.65 | 4.22 | 0.05 | 1.85 |
| Pengel Investasi Pendidikan | 1099.00 | 2.00 | 10.74 | 0.09 | 4.73 |
| Pengel Investasi Kesehatan | 248.7578 | 6.97 | 33.83 | 0.05 | 14.75 |
| Pengel untuk Asuransi | 554.7854 | 35.23 | 86.74 | -4.59 | 36.20 |
| Total Pengeluaran Kel Petani | 6080.00 | 4.10 | 12.75 | -0.38 | 5.43 |
| Periode Lunas Kredit | 7.0247 | -2.99 | -1.74 | -0.09 | -0.29 |

Keterangan: Simulasi 6 (S6): Kombinasi S1 dan S5

Simulasi 7 (S7): Perluasan kebun plasma 50%

Simulasi 8 (S8): Peningkatan tenaga kerja keluarga 22% untuk mengantikan tenaga kerja upahan

Simulasi 9 (S9): Peningkatan tenaga kerja keluarga di kebun plasma 50% dengan mengurangi tenaga kerja keluarga di luar kebun plasma 10%

Lampiran 19. Rekapitulasi Dampak Faktor Eksternal dan Internal terhadap Kinerja Ekonomi Rumahtangga Petani Plasma Kelapa Sawit Pola PIR-Trans di Sumatera Selatan

| Variabel Endogen | Nilai Dasar | S1 (%) | S2 (%) | S3 (%) | S 4 (%) | S 5 (%) |
|------------------------------|-------------|--------|--------|--------|---------|---------|
| Luas Areal Kebun Plasma KS | 2.3015 | 3.54 | -0.44 | -1.38 | 0.26 | 0.20 |
| Produktivitas Kebun KS | 15981.00 | 4.87 | -0.56 | -0.11 | 0.79 | 0.33 |
| Total Produksi Kelapa Sawit | 37109.00 | 8.60 | -1.00 | -1.50 | 1.03 | 0.51 |
| Curahan TK Petani di Kbn KS | 25.8921 | 0.70 | -0.09 | -0.27 | 2.79 | 6.87 |
| Curahan TK Istri di Kebun KS | 15.0918 | 1.08 | -0.13 | -0.42 | 0.08 | 0.06 |
| Curhn TK Kel di Kebun KS | 43.6633 | 0.79 | -0.10 | -0.31 | 1.68 | 4.10 |
| Total Curahan TK di Kebun KS | 47.6938 | 0.73 | -0.09 | -0.28 | 1.54 | 3.75 |
| Curhn TK Petani Luar KS | 112.0314 | 1.39 | 2.94 | -0.32 | 6.88 | 4.29 |
| Curhn TK Istri Luar KS | 70.5886 | -0.58 | 0.07 | 0.23 | -1.61 | -4.93 |
| Curhn TK Kel Petani Luar KS | 200.4826 | 0.57 | 1.67 | -0.10 | 3.28 | 0.66 |
| Produktivitas TK di Kebun KS | 810.0548 | 7.72 | -0.91 | -1.16 | -0.31 | -3.21 |
| Penggunaan Pupuk N | 428.0627 | 1.26 | -1.50 | -0.09 | 5.28 | 3.95 |
| Biaya Penggunaan Pupuk N | 484.0509 | 1.26 | 18.20 | -0.09 | 5.32 | 24.78 |
| Penggunaan Pupuk P | 436.1087 | 0.29 | -0.75 | -0.08 | 5.33 | 4.75 |
| Biaya Penggunaan Pupuk P | 676.6979 | 0.29 | 19.10 | -0.08 | 5.47 | 25.86 |
| Penggunaan Pupuk K | 405.0485 | 4.94 | -8.62 | -0.26 | 5.69 | -2.72 |
| Biaya Penggunaan Pupuk K | 458.235 | 4.92 | 9.70 | -0.26 | 5.73 | 16.81 |
| Penggunaan Pestisida | 5.2725 | 3.65 | -5.45 | -1.42 | 1.73 | -3.33 |
| Biaya Penggunaan Pestisida | 178.0376 | 3.65 | 13.35 | -1.42 | 1.78 | 15.97 |
| Biaya Penggunaan TK Upahan | 64.4656 | 0.00 | 0.00 | 0.00 | 15.00 | 15.00 |
| Penggunaan Pupuk | 421.026 | 2.37 | -4.06 | -0.16 | 5.47 | 1.58 |
| Biaya Produksi di Kebun KS | 1896.00 | 2.00 | 15.08 | -0.21 | 5.38 | 21.68 |
| Nilai Produksi Total | 14758.00 | 24.89 | -1.00 | -1.50 | 1.03 | 0.51 |
| Biaya Administrasi KS | 737.9078 | 24.90 | -1.00 | -1.50 | 1.03 | 0.50 |
| Biaya Transportasi TBS | 1098.00 | 8.56 | -1.00 | 96.99 | 1.00 | 0.46 |
| Biaya Manajemen KUD | 180.1565 | 8.60 | -1.00 | 18.20 | 1.01 | 0.49 |
| Biaya Total Kelapa Sawit | 4614.00 | 7.15 | 5.74 | 23.43 | 2.64 | 9.10 |
| Pendapatan dari KS | 10145.00 | 32.95 | -4.07 | -12.84 | 0.29 | -3.41 |
| Pendapatan dari Luar KS | 2389.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pendapatan Keluarga Petani | 12534.00 | 26.67 | -3.30 | -10.40 | 0.23 | -2.76 |
| Pengel utk Konsumsi Pangan | 1815.00 | 3.80 | -0.55 | -1.76 | 0.00 | -0.50 |
| Pengel Investasi Pendidikan | 921.9197 | 9.45 | -1.25 | -3.99 | 0.06 | -1.09 |
| Pengel Investasi Kesehatan | 306.6565 | 20.02 | -2.47 | -7.80 | 0.18 | -2.07 |
| Pengel untuk Asuransi | 897.7554 | 33.22 | -1.16 | -1.32 | 1.44 | 0.93 |
| Total Pengeluaran Kel Petani | 5969.00 | 8.64 | -0.65 | -1.74 | 0.25 | -0.28 |
| Periode Lunas Kredit | 3.6981 | -11.27 | 0.50 | 4.50 | 0.77 | 0.10 |

Keterangan: Simulasi 1 (S1): Harga produk TBS naik 15%
 Simulasi 2 (S2): Harga pupuk dan pestisida naik 20%
 Simulasi 3 (S3): Ongkos angkut naik 100% dan fee KUD naik 20%
 Simulasi 4 (S4): Upah tenaga kerja di kebun plasma naik 15%
 Simulasi 5 (S5): Kombinasi S2, S3 dan S4.

Lampiran 19. Lanjutan

| Variabel Endogen | Nilai Dasar | S 6 (%) | S 7 (%) | S 8 (%) | S 9 (%) |
|------------------------------|-------------|---------|---------|---------|---------|
| Luas Areal Kebun Plasma KS | 2.3015 | 1.77 | 50.00 | -1.26 | 4.70 |
| Produktivitas Kebun KS | 15981.00 | 4.98 | 5.81 | 1.51 | 2.35 |
| Total Produksi Kelapa Sawit | 37109.00 | 6.82 | 57.07 | 1.25 | 7.38 |
| Curahan TK Petani di Kbn KS | 25.8921 | 3.09 | 9.40 | 1.30 | 0.93 |
| Curahan TK Istri di Kebun KS | 15.0918 | 0.54 | 14.49 | 1.31 | 1.44 |
| Curhn TK Kel di Kebun KS | 43.6633 | 2.02 | 10.58 | 22.00 | 50.00 |
| Total Curahan TK di Kebun KS | 47.6938 | 1.85 | 9.69 | -4.87 | 25.42 |
| Curhn TK Petani Luar KS | 112.0314 | 11.11 | 6.56 | -0.76 | 0.72 |
| Curhn TK Istri Luar KS | 70.5886 | -1.86 | -7.81 | 0.21 | -0.78 |
| Curhn TK Kel Petani Luar KS | 200.4826 | 5.55 | 0.92 | -0.35 | -10.00 |
| Produktivitas TK di Kebun KS | 810.0548 | 5.05 | 42.09 | 30.48 | -0.37 |
| Penggunaan Pupuk N | 428.0627 | 5.12 | 20.08 | -0.71 | 1.91 |
| Biaya Penggunaan Pupuk N | 484.0509 | 26.19 | 19.96 | -0.69 | 1.94 |
| Penggunaan Pupuk P | 436.1087 | 4.78 | 19.19 | -0.67 | 1.83 |
| Biaya Penggunaan Pupuk P | 676.6979 | 25.89 | 18.77 | 0.60 | 1.92 |
| Penggunaan Pupuk K | 405.0485 | 1.71 | 23.85 | -0.79 | 2.29 |
| Biaya Penggunaan Pupuk K | 458.235 | 22.12 | 23.69 | -0.77 | 2.32 |
| Penggunaan Pestisida | 5.2725 | -1.71 | 48.68 | -1.29 | 4.84 |
| Biaya Penggunaan Pestisida | 178.0376 | 17.91 | 48.35 | -1.22 | 4.93 |
| Biaya Penggunaan TK Upahan | 64.4656 | 15.00 | 0.00 | -100.00 | 0.00 |
| Penggunaan Pupuk | 421.026 | 3.64 | 21.28 | -0.73 | 2.03 |
| Biaya Produksi di Kebun KS | 1896.00 | 23.47 | 22.10 | -4.06 | 2.22 |
| Nilai Produksi Total | 14758.00 | 22.84 | 56.95 | 1.15 | 7.26 |
| Biaya Administrasi KS | 737.9078 | 22.84 | 56.93 | 1.15 | 7.26 |
| Biaya Transportasi TBS | 1098.00 | 113.57 | 56.74 | 1.18 | 7.38 |
| Biaya Manajemen KUD | 180.1565 | 28.16 | 56.91 | 1.09 | 7.10 |
| Biaya Total Kelapa Sawit | 4614.00 | 41.42 | 33.88 | -1.17 | 4.07 |
| Pendapatan dari KS | 10145.00 | 14.39 | 67.42 | 2.20 | 8.69 |
| Pendapatan dari Luar KS | 2389.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pendapatan Keluarga Petani | 12534.00 | 11.65 | 54.57 | 1.78 | 7.04 |
| Pengel utk Konsumsi Pangan | 1815.00 | 1.27 | 7.55 | 0.28 | 0.99 |
| Pengel Investasi Pendidikan | 921.9197 | 3.71 | 19.21 | 0.65 | 2.48 |
| Pengel Investasi Kesehatan | 306.6565 | 8.74 | 40.95 | 1.34 | 5.28 |
| Pengel untuk Asuransi | 897.7554 | 31.44 | 76.44 | 1.49 | 9.74 |
| Total Pengeluaran Kel Petani | 5969.00 | 6.15 | 18.88 | 0.49 | 2.43 |
| Periode Lunas Kredit | 3.6981 | -5.46 | -4.36 | -0.19 | -3.04 |

Keterangan: Simulasi 6 (S6): Kombinasi S1 dan S5

Simulasi 7 (S7): Perluasan kebun plasma 50%

Simulasi 8 (S8): Peningkatan tenaga kerja keluarga 22% untuk menggantikan tenaga kerja upahan

Simulasi 9 (S9): Peningkatan tenaga kerja keluarga di kebun plasma 50% dengan mengurangi tenaga kerja keluarga di luar kebun plasma 10%

Lampiran 20. Rekapitulasi Dampak Faktor Eksternal dan Internal terhadap Kinerja Ekonomi Rumahtangga Petani Plasma Kelapa Sawit Pola PIR-KUK di Sumatera Selatan

| Variabel Endogen | Nilai Dasar | S1 (%) | S 2 (%) | S 3 (%) | S 4 (%) | S 5 (%) |
|------------------------------|-------------|---------|---------|---------|---------|---------|
| Luas Areal Kebun Plasma KS | 1.8992 | 1.74 | -0.26 | -0.67 | 0.13 | 0.33 |
| Produktivitas Kebun KS | 7971.00 | 8.58 | -1.25 | -0.08 | 1.28 | 0.28 |
| Total Produksi Kelapa Sawit | 15234.00 | 10.51 | -1.51 | -0.75 | 1.40 | 0.59 |
| Curahan TK Petani di Kbn KS | 17.0549 | 0.43 | -0.06 | -0.17 | 2.17 | 8.78 |
| Curahan TK Istri di Kebun KS | 9.7886 | 0.68 | -0.10 | -0.26 | 0.05 | 0.13 |
| Curhn TK Kel di Kebun KS | 32.0347 | 0.44 | -0.07 | -0.17 | 1.17 | 4.71 |
| Total Curahan TK di Kebun KS | 33.3582 | 0.42 | -0.06 | -0.16 | 1.12 | 4.52 |
| Curhn TK Petani Luar KS | 102.1499 | 0.76 | 1.50 | -0.13 | 7.55 | 2.59 |
| Curhn TK Istri Luar KS | 78.1455 | -0.21 | 0.03 | 0.08 | -0.55 | -3.75 |
| Curhn TK Kel Petani Luar KS | 200.2953 | 0.30 | 0.78 | -0.04 | 3.64 | -0.14 |
| Produktivitas TK di Kebun KS | 484.659 | 10.07 | -1.45 | -0.57 | 0.13 | -4.31 |
| Penggunaan Pupuk N | 259.7274 | 1.98 | -2.76 | -0.06 | 7.23 | 4.76 |
| Biaya Penggunaan Pupuk N | 285.7001 | 1.98 | 16.69 | -0.06 | 7.23 | 25.72 |
| Penggunaan Pupuk P | 268.8373 | 0.19 | -1.08 | -0.05 | 7.19 | 6.38 |
| Biaya Penggunaan Pupuk P | 376.3722 | 0.19 | 18.70 | -0.05 | 7.19 | 27.66 |
| Penggunaan Pupuk K | 214.8723 | 7.68 | -17.5 | -0.20 | 8.90 | -8.23 |
| Biaya Penggunaan Pupuk K | 236.3595 | 7.68 | -1.03 | -0.20 | 8.90 | 10.12 |
| Penggunaan Pestisida | 4.3085 | 1.80 | -6.22 | -0.69 | 1.63 | -4.12 |
| Biaya Penggunaan Pestisida | 141.1032 | 1.84 | 12.44 | -0.70 | 1.64 | 14.98 |
| Biaya Penggunaan TK Upahan | 19.8529 | 0.00 | 0.00 | 0.00 | 15.00 | 15.00 |
| Penggunaan Pupuk | 242.626 | 3.61 | -7.99 | -0.11 | 7.87 | 0.20 |
| Biaya Produksi di Kebun KS | 1094.00 | 2.56 | 12.25 | -0.09 | 6.76 | 20.66 |
| Nilai Produksi Total | 5515.00 | 27.43 | -1.49 | -0.76 | 1.38 | 0.58 |
| Biaya Administrasi KS | 275.7643 | 27.43 | -1.49 | -0.77 | 1.38 | 0.58 |
| Biaya Transportasi TBS | 474.1508 | 10.55 | -1.51 | 98.47 | 1.40 | 0.59 |
| Biaya Manajemen KUD | 77.5772 | 10.59 | -1.50 | 19.05 | 1.39 | 0.60 |
| Biaya Total Kelapa Sawit | 3640.00 | 4.42 | 3.32 | 13.10 | 2.34 | 6.32 |
| Pendapatan dari KS | 1876.00 | 72.01 | -10.8 | -27.77 | -0.53 | -10.61 |
| Pendapatan dari Luar KS | 4241.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pendapatan Keluarga Petani | 6116.00 | 22.11 | -3.30 | -8.50 | -0.15 | -3.24 |
| Pengel utk Konsumsi Pangan | 1783.00 | 1.57 | -0.28 | -0.73 | -0.06 | -0.28 |
| Pengel Investasi Pendidikan | 915.9293 | 3.85 | -0.61 | -1.62 | -0.05 | -0.63 |
| Pengel Investasi Kesehatan | 159.4333 | 15.57 | -2.34 | -5.99 | -0.11 | -2.28 |
| Pengel untuk Asuransi | -53.4438 | -230.05 | 11.14 | 1.54 | -12.36 | -7.20 |
| Total Pengeluaran Kel Petani | 3607.00 | 5.82 | -0.58 | -1.05 | 0.14 | -0.30 |
| Periode Lunas Kredit | 5.7269 | -6.49 | 0.16 | 3.04 | 0.58 | -0.05 |

Keterangan: Simulasi 1 (S1): Harga produk TBS naik 15%

Simulasi 2 (S2): Harga pupuk dan pestisida naik 20%

Simulasi 3 (S3): Ongkos angkut naik 100% dan fee KUD naik 20%

Simulasi 4 (S4): Upah tenaga kerja di kebun plasma naik 15%

Simulasi 5 (S5): Kombinasi S2, S3 dan S4.

Lampiran 20. Lanjutan

| Variabel Endogen | Nilai Dasar | S6 (%) | S7 (%) | S 8 (%) | S 9 (%) |
|------------------------------|-------------|--------|--------|---------|---------|
| Luas Areal Kebun Plasma KS | 1.8992 | 0.82 | 50.00 | 7.73 | 13.66 |
| Produktivitas Kebun KS | 7971.00 | 8.52 | 16.27 | 6.06 | 10.39 |
| Total Produksi Kelapa Sawit | 15234.00 | 9.43 | 144.36 | 14.96 | 26.52 |
| Curahan TK Petani di Kbn KS | 17.0549 | 2.34 | 21.97 | 2.70 | 3.40 |
| Curahan TK Istri di Kebun KS | 9.7886 | 0.32 | 34.39 | 3.87 | 5.33 |
| Curhn TK Kel di Kebun KS | 32.0347 | 1.34 | 22.20 | 22.00 | 50.00 |
| Total Curahan TK di Kebun KS | 33.3582 | 1.29 | 21.32 | 56.99 | 96.99 |
| Curhn TK Petani Luar KS | 102.1499 | 9.89 | 9.50 | 0.65 | 1.55 |
| Curhn TK Istri Luar KS | 78.1455 | -0.63 | -10.85 | -0.95 | -1.68 |
| Curhn TK Kel Petani Luar KS | 200.2953 | 4.80 | 0.61 | -0.04 | -10.00 |
| Produktivitas TK di Kebun KS | 484.659 | 7.94 | 75.95 | -23.12 | -33.97 |
| Penggunaan Pupuk N | 259.7274 | 6.74 | 54.29 | 4.65 | 8.25 |
| Biaya Penggunaan Pupuk N | 285.7001 | 28.09 | 54.29 | 4.65 | 8.25 |
| Penggunaan Pupuk P | 268.8373 | 6.23 | 51.07 | 4.37 | 7.76 |
| Biaya Penggunaan Pupuk P | 376.3722 | 27.48 | 51.07 | 4.37 | 7.76 |
| Penggunaan Pupuk K | 214.8723 | -1.18 | 72.70 | 6.26 | 11.09 |
| Biaya Penggunaan Pupuk K | 236.3595 | 18.59 | 72.70 | 6.26 | 11.09 |
| Penggunaan Pestisida | 4.3085 | -3.60 | 91.68 | 8.04 | 14.21 |
| Biaya Penggunaan Pestisida | 141.1032 | 15.63 | 88.41 | 8.19 | 14.46 |
| Biaya Penggunaan TK Upahan | 19.8529 | 15.00 | 0.00 | -100.00 | 0.00 |
| Penggunaan Pupuk | 242.626 | 3.45 | 60.42 | 5.18 | 9.20 |
| Biaya Produksi di Kebun KS | 1094.00 | 23.13 | 58.87 | 3.38 | 9.14 |
| Nilai Produksi Total | 5515.00 | 26.17 | 137.52 | 14.96 | 26.29 |
| Biaya Administrasi KS | 275.7643 | 26.15 | 137.50 | 14.95 | 26.29 |
| Biaya Transportasi TBS | 474.1508 | 118.9 | 150.76 | 15.37 | 27.11 |
| Biaya Manajemen KUD | 77.5772 | 31.36 | 161.60 | 16.84 | 29.70 |
| Biaya Total Kelapa Sawit | 3640.00 | 25.08 | 51.18 | 4.48 | 8.87 |
| Pendapatan dari KS | 1876.00 | 28.20 | 304.8 | 35.23 | 60.02 |
| Pendapatan dari Luar KS | 4241.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pendapatan Keluarga Petani | 6116.00 | 8.67 | 93.53 | 10.81 | 18.43 |
| Pengel utk Konsumsi Pangan | 1783.00 | 0.39 | 6.28 | 0.73 | 1.23 |
| Pengel Investasi Pendidikan | 915.9293 | 1.30 | 16.06 | 1.86 | 3.17 |
| Pengel Investasi Kesehatan | 159.4333 | 6.10 | 65.86 | 7.61 | 12.97 |
| Pengel untuk Asuransi | -53.4438 | -227 | -1164 | -126.15 | -222 |
| Total Pengeluaran Kel Petani | 3607.00 | 4.16 | 27.34 | 3.02 | 5.27 |
| Periode Lunas Kredit | 5.7269 | -2.69 | -3.11 | -0.34 | -1.48 |

Keterangan: Simulasi 6 (S6): Kombinasi S1 dan S5

Simulasi 7 (S7): Perluasan kebun plasma 50%

Simulasi 8 (S8): Peningkatan tenaga kerja keluarga 22% untuk mengantikan tenaga kerja upahan

Simulasi 9 (S9): Peningkatan tenaga kerja keluarga di kebun plasma 50% dengan mengurangi tenaga kerja keluarga di luar kebun plasma 10%.