Paddy SFA

```
frontier L_MARGIN L_MC L_WC L_CPC L_TPC L_Seed_RateRs L_FYM_RateRs L_Urea_RateRs L_DAP_RateRs
L_MOP_RateRs L_Herbicide_RateRs L_Pesticide_RateRs L_Paddy_Qtmarketed L_Rice_Qtmarketed
L_Straw_Qtmarketed L_RICEWAST_Qtmarketed L_Paddy_PriceRs L_Rice_PriceRs L_Straw_PriceRs
L_Paddy_Qt L_TOTALCOST

Stoc. frontier normal/half-normal model              Number of obs =      389
                                                     Wald chi2(20) = 2.90e
Log likelihood = 302.44185                           Prob > chi2   =   0.0000

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             L_MARGIN | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
----------------------+-------------------------------------------------------
                 L_MC |   .0863541   .0626043     1.38   0.168    -.0363482    .2090563
                 L_WC |   .0953509    .049699     1.92   0.055    -.0020574    .1927591
                L_CPC |  -.0585927   .0447747    -1.31   0.191    -.1463495     .029164
                L_TPC |   .2393023   .0802931     2.98   0.003     .0819306    .3966739
        L_Seed_RateRs |   .0859093   .0151447     5.67   0.000     .0562263    .1155924
         L_FYM_RateRs |    .076287   .0380005     2.01   0.045     .0018073    .1507667
        L_Urea_RateRs |  -.0404378   .0133586    -3.03   0.002    -.0666201   -.0142555
         L_DAP_RateRs |  -.1203573   .1090654    -1.10   0.270    -.3341217     .093407
         L_MOP_RateRs |   .1747151   .0438686     3.98   0.000     .0887343    .2606959
   L_Herbicide_RateRs |  -.1476884   .1194507    -1.24   0.216    -.3818076    .0864307
   L_Pesticide_RateRs |     .05024   .0098567     5.10   0.000     .0309213    .0695588
   L_Paddy_Qtmarketed |   .1338474   .0032473    41.22   0.000     .1274829    .1402119
    L_Rice_Qtmarketed |   .0204653   .0035037     5.84   0.000     .0135982    .0273323
   L_Straw_Qtmarketed |   .0503035   .0048678    10.33   0.000     .0407628    .0598442
L_RICEWAST_Qtmarketed |   .0680619   .0046765    14.55   0.000     .0588961    .0772277
      L_Paddy_PriceRs |   1.330817   .0471449    28.23   0.000     1.238415    1.423219
       L_Rice_PriceRs |   2.230164   .0593194    37.60   0.000       2.1139    2.346428
      L_Straw_PriceRs |  -.0596304   .0250005    -2.39   0.017    -.1086305   -.0106303
           L_Paddy_Qt |   1.408636   .0367136    38.37   0.000     1.336678    1.480593
         L_TOTALCOST |  -.5471957   .0310546   -17.62   0.000    -.6080616   -.4863298
               _cons |  -10.07231          .        .       .            .           .
----------------------+-------------------------------------------------------
            /lnsig2v |  -24.14097   12.78836    -1.89   0.059     -49.2057    .9237581
            /lnsig2u |  -3.006563   .0717083   -41.93   0.000    -3.147108   -2.866017
----------------------+-------------------------------------------------------
             sigma_v |   5.73e-06   .0000366                     2.07e-11    1.587053
             sigma_u |   .2223992   .0079739                     .2073071      .23859
              sigma2 |   .0494614   .0035468                     .0425098     .056413
              lambda |   38839.96   .0079736                     38839.95    38839.98
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 predict PE, te

. sum PE

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          PE |        389    .8651818    .1179762   .3579159      .99998
```

```
betareg PE Education Familysize Familyinagriculture FarmingExperience FPO Training
MarketinfAccess UzhavanApp Cropping_Land Mean_D_M EM_pca1 ISB_pca1 RO_pca1 AM_pca1
EM_In_pca1 EM_NA_pca1 EM_RT_pca1 EM_A_pca1 EM_Pa_pca1 EI_pca1

Beta regression                                 Number of obs     =        389
                                                LR chi2(20)       =     201.05
                                                Prob > chi2       =     0.0000

Link function  :  g(u) = log(u/(1-u))           [Logit]
Slink function :  g(u) = log(u)                 [Log]

Log likelihood =  554.14421

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          PE | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
PE           |
   Education |   .1505694   .0410992     3.66   0.000     .0700164    .2311224
  Familysize |   .1215084   .0397519     3.06   0.002     .0435962    .1994206
Familyinagr~e |   -.340686   .0639004    -5.33   0.000    -.4659285   -.2154434
FarmingExper~e |   .0114635   .0043916     2.61   0.009     .0028562    .0200709
         FPO |  -.6788501   .1601902    -4.24   0.000    -.9928171   -.3648831
    Training |   .5229076   .1986782     2.63   0.008     .1335055    .9123097
MarketinfAcc~s |  -.5687566    .164381    -3.46   0.001    -.8909375   -.2465758
  UzhavanApp |   1.018035    .239231     4.26   0.000     .5491504    1.486919
Cropping_Land |  -.0810606   .0251777    -3.22   0.001     -.130408   -.0317132
   Mean_D_M |   -.249094   .2650236    -0.94   0.347    -.7685306    .2703427
    EM_pca1 |    .287199   .0525936     5.46   0.000     .1841173    .3902806
   ISB_pca1 |  -.1081628   .0508068    -2.13   0.033    -.2077423   -.0085833
    RO_pca1 |   .0481913    .046941     1.03   0.305    -.0438113    .1401939
    AM_pca1 |   .0184136   .0496807     0.37   0.711    -.0789587     .115786
  EM_In_pca1 |    .121493   .0465099     2.61   0.009     .0303352    .2126508
  EM_NA_pca1 |    .055266    .059426     0.93   0.352    -.0612067    .1717388
  EM_RT_pca1 |   .0555263   .0657414     0.84   0.398    -.0733245    .1843772
   EM_A_pca1 |  -.0159809   .0547848    -0.29   0.771    -.1233571    .0913953
  EM_Pa_pca1 |  -.1729247   .0586303    -2.95   0.003    -.2878379   -.0580115
    EI_pca1 |   .0346784   .0351696     0.99   0.324    -.0342528    .1036096
      _cons |   2.130491   .3951064     5.39   0.000     1.356097    2.904885
-------------+----------------------------------------------------------------
scale        |
      _cons |    1.98584   .0772637    25.70   0.000     1.834406    2.137275
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