

January

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1 New Years Day
Christmas Holidays						
2	3	4	5	6	7	8
Holidays						
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

February

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

March

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16 Regen IR 2	17	18	19
20	21 Some RF Processing	22 LINAC Prestart signoff RF processing	23 RF processing	24 PEP-II and beams Prestart signoff RF processing	25 All HER Intermediate pwr supplies on RF processing	26 Beam to ST500 No Chopper bulk Regen HER arc 11 RF processing
27 Beam to ST500 No Chopper bulk RF processing 3 of 4 sta LER 4 of 9 sta HER	28 Beam to NLTR No Chopper bulk Regen HER arc 1 RF processing 3 sta LER 4 sta HER	29 Chopper bulk wrk RF processing 3 sta LER 4 sta HER	30 Replace 1-4 klys Regen HER arc 5 leak chk HER IR10 RF elbow swap Stdzed the rings	31 Beam to 2-9 IR10 vent Abort kickers		

April

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
					Beam to sect 10 IR 10 vacuum Abrt kickers OK Magic T in 8-5 Leak in 4-2 load	Beam to ring Stored e- beam HER Y tune wide
3	4	5	6	7	8	9
500 mA HER	TCs in zone 8 Replace 4-2 load DC solenoid e+	Cav. Drift tubes Arc 11 vacuum Shunt box e+ source vac DC solenoid e+ HER to 1A	HER RF tuning HER LFB tuning Dbinstall DC solenoid e+ vacuum e+	HER ORM data HER LFB tuning vacuum e+	vacuum e+ HER to 1080 mA	vacuum e+ HER to 1440 mA
10	11	12	13	14	15	16
LER vac PR10 4111 vacuum e+ replace welded part	HER 12-3 PS 7 stations vacuum e+ gasket	HER 4-1 6 stations vacuum e+ pumping down	Small power dip 8 stations BIC fills uneven e+ RF processing begun	Access to zs 12 and 8 for LER vacuum e+ RF processing	Finish arc chmb replacement e+ RF processing Positrons stored	Steer LER LER to 60 mA First collisions
17	Collide 18	Collide 19	Collide 20	Collide 21	Collide 22	Collide 23
HER LFB SDR kicker BIC fills uneven LER steer 576 bunches Lp 2.25 Lint 10	LER 4-3 LER X tune wide 826 bunches Lp 3.90 Lint 34	LER LFB and TFB 4 beam losses 965 bunches Lp 4.90 Lint 163	HER 12-2 Tight LER X tune Small pwr dip 14 beam losses 1057 bunches Lp 5.04 Lint 246	LER trickle HER trickle 8 beam losses 1241 bunches Lp 5.98 Lint 348	T7062cav in PR12 HER trickle Lpeak -20% 22 beam losses 1517 bunches Lp 5.96 Lint 212	LI18 Quads 20 beam losses Lp 5.27 Lint 260
Collide 24	Collide 25	Collide 26	Collide 27	Collide 28	Collide 29	Collide 30
BaBar BIP IOC Vac flow in HER arc 9 BaBar EMC cal 14 beam losses Lp 5.32 Lint 150	RF 4-3 coll noise HER gap volt from 16.5 to 15.5 MV 8 beam losses Lp 5.50 Lint 335	RF LER 4-2, 4-3 RF HER 4-1 BIC 3 beam losses Lp 5.78 Lint 317	Char. 2.5 hrs BaBar CENBIP LI10 flow swtch 12 beam losses Lp 5.81 Lint 241	Injection bkgds HER inj. Tuneup 12-5 dropouts 10 beam losses Lp 5.82 Lint 296	BaBar SVT 2hr HER RF 8-1 2hr No aborts on day 9 beam losses 1561 bunches Lp 6.03 Lint 380	LER inj bkgds HER arc 9 water MPS, HER bends 8 beam losses 1572 bunches Lp 5.90 Lint 186

May

2005

Sun

Mon

Tue

Wed

Thu

Fri

Sat

Collide 1	Collide 2	Collide 3	Collide 4	Collide 5	Collide 6	Collide 7
BIC fills uneven HER septum flow 18 beam losses Lp 5.92 Lint 290	BaBar BIP pwr dip Mini-ROD RF 12-5, 12-6 11 beam losses Lp 5.916 Lint 185	TC on HOM load actually on pipe LER 4-4 NIRP 7 beam losses Lp 5.55 Lint 247	SDR inj septum PBL pwr tap PPS, SDR kllys flow swtch 2 beam losses Lp 6.12 Lint 254	QD4s, QF2s, PBL NDR RF, T-gun Bldg 685 pwr out SDR septum 4 beam losses Lp 6.27 Lint 147	HER LFB off 4-3 NIRP T3018K59 13 beam losses Lp 6.71 Lint 283	PR12 T3024CAV 4-3 NIRP 12 beam losses Lp 6.785 Lint 333
Collide 8	Collide 9	Collide 10	Collide 11	Collide 12	Collide 13	Collide 14
bad bpm cal Ecm +0.5 MeV 7 beam losses Lp 6.53 Lint 458	NDR kicker 3 hr MD BaBar SVT 1.5hr 1 beam loss Lp 6.29 Lint 347	BaBar SVT 5.5 hr Fill/coast 6hrs 0.5 hr MD LER chrom +1.3 7 beam losses Lp 5.51 Lint 196	MD 2hr LER char Full by2 test 4 beam losses Lp 5.00 Lint 315	T3018KI3 1hr Flash LER TSPs SVT work 3 hr 7 beam losses 1344 bunches Lp 4.85 Lint 231	NDR extraction kicker 9 hrs 3 beam losses Lp 5.00 Lint 245	HER RF 4-1 1hr 1.5 hr MD LER to 2.5A OK 5 beam losses 1572 bunches Lp 5.84 Lint 348
Collide 15	MD 13 16	MD 10 17	Collide 18	Collide 19	Collide 20	Collide 21
SDR RF HER RF 4-1 8 stations 10 beam losses Lp 6.61 Lint 376	Restore LER to May 2004 orbit 2 beam losses Lp 6.52 Lint 209	Recover luminosity Lsp = 4.8 BaBar SVT 3hrs Lp 4.90 Lint 51	Power Outage Power off at 07:50 8 hrs of running 1 beam loss Lp 6.6 Lint 153	Power Outage No beams	Power Outage Pwr restord 17:00 BaBar sol. cooling No beams	Power recovery BaBar sol. cooling No beams
Collide 22	Collide 23	Collide 24	Collide 25	Collide 26	Collide 27	Collide 28
Power recovery BaBar sol. cooling No beams	Power recovery BaBar plug out BaBar sol. cooling ROD work No beams	Power recovery BaBar plug in BaBar sol. cold e- stored e+ stored Lp 0.0 no delivery	Collisions HER RF phasing TFB timing BaBar DCH 19 beam losses Lp 2.94 no delivery	QDBM3, DCCT BSOIC 8-1 RF 4-3 10 beam losses Lp 3.93 Lint 82	DCH bkgds 7 beam losses Lp 5.26 Lint 284	SK2 ps STDZ BaBar intrlk 9 beam losses Lp 4.58 Lint 221
Collide 29	Collide 30	Collide 31				
3 beam losses Lp 4.48 Lint 318	11 beam losses Lp 4.83 Lint 303	24hr shifts 2 beam losses Lp 5.05 Lint 307				

June

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			Collide 1	Collide 2	Collide 3	Collide 4
			24hr shifts 5 beam losses 1440 bunches Lp 5.31 Lint 351	24hr shifts 7 beam losses Lp 5.82 Lint 370	24hr shifts BIC, LFB, 4-2, BaBar, HERO, 6 beam losses Lp 5.96 Lint 314	24hr shifts STDZ wiggler 10 beam losses Lp 5.89 Lint 314
Collide 5	Collide 6	ROD 6 7	Collide 8	Collide 9	Collide 10	Collide 11
24hr shifts 1 beam loss Lp 6.41 Lint 495	24hr shifts IR steering 9 beam losses Lp 6.82 Lint 447	24hr shifts T-Gun cathode RF 4-3, Y+ TFB, IR06 Insp., bpms 4 losses in 7.5 hr Lp 6.84 Lint 135	24hr shifts NRTL PS 1 hr Wtr flow 2.5 hr Inj. Bkgds 5 beam losses Lp 6.51 Lint 262	24hr shifts All 4 klys LER 1hr LI01 quads 2 hr E166 to 50 GeV 9 beam losses Lp 7.25 Lint 368	24hr shifts Ethernet 2.5 hrs Inj. Bkgds 12 beam losses Lp 6.96 Lint 351	16hr shifts Lumi drops 4 beam losses Lp 6.97 Lint 475
Collide 12	Collide 13	Collide 14	MD 6 15	Collide 16	Collide 17	Collide 18
16hr shifts Lumi dips Lumi peaks LER to 2400 11 beam losses Lp 6.48 Lint 378	Water leak, 4-1 BOSIC, sect 1 qds LER chopper Lumi dips 9 beam losses Lp 6.65 Lint 220	HER RF 4-1 HER 12-1 osc. 12 beam losses Lp 6.70 Lint 419	Mach. Char. 7 hrs By4 pattern abort kicker Ecm chng 8 beam losses Lp 6.70 Lint 276	BT quads sect 1 5 beam losses Lp 6.38 Lint 456	BT quads sect 1 1572 bunches 4 beam losses Lp 6.70 Lint 488	Vac leak in LER at 17:00 8 beam losses Lp 6.71 Lint 276
Collide 19	Collide 20	Collide 21	Collide 22	Collide 23	Collide 24	Collide 25
Vac leak in LER No beams	Vac leak in LER BaBar doors open No beams	Vac leak in LER LER bpms No beams	Vac leak in LER LER bpms No beams	Vac pump down Chopper suplys HER injector Scrubbing 250 mA 10 min Some beam	Regen NEGS 4hr Scrubbing LER TFB 450 mA 10 min Lp 2.28	K02, LER TFB 9 beam losses Lp 4.92 Lint 138
Collide 26	Collide 27	Collide 28	Collide 29	Collide 30		
LER TFB 3 beam losses Lp 5.67 Lint 374	LER TFB 2 losses in 12 hrs Lp 5.67 Lint 225	LER TFB HER TFB PR06 3 losses in 8 hrs Lp 5.55 Lint 53	SDR kicker 7 beam losses Lp 5.28 Lint 245	SDR kicker No owl shift HER RF 4-1 OFF 6 beam losses Lp 5.77 Lint 229		

July

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					Collide 1 NDR inj. sept. 5 hrs in swing Steering LER flat 5 beam losses Lp 6.06 Lint 340	Collide 2 NDR inj. sept. 9 hrs 4 beam losses Lp 5.18 Lint 230
Collide 3 4 beam losses Lp 5.86 Lint 410	Collide 4 Various Coasts HER B2 pwr sply STDZ rings 4 beam losses Lp 5.89 Lint 366	Collide 5 SDR RF NDR inj sept. 16 beam losses Lp 5.32 Lint 173	MD 9 6 BPM heating Abort gap study HER RF 4-1 4 losses in 15 hrs Lp 6.01 Lint 229	Collide 7 Shorter abort gap 1 hr 1460 bunches 6 beam losses Lp 6.03 Lint 384	Collide 8 Trains of 120 1474 bunches 6 beam losses Lp 6.02 Lint 442	Collide 9 Valves in PEP bypass lines Trains of 120 1474 bunches 5 beam losses Lp 6.24 Lint 440
Collide 10 e+ DM trip VVSs Long coast Trains of 30 1456 bunches 4 beam losses Lp 6.41 Lint 439	Collide 11 Trains of 30 1456 bunches 9 beam losses Lp 6.69 Lint 394	MD 3 12 Ring Char. HER RF 4-1 Mini-ROD 5 hrs SDR and LER inj 8 losses in 14 hrs Lp 6.61 Lint 208	Collide 13 LER steering 7 beam losses Lp 6.68 Lint 451	Collide 14 HER choppr 5 hrs LER steering 8 beam losses Lp 6.69 Lint 324	Collide 15 HER magnet PSs LI07 PS PPS tot 9 hrs 8 beam losses Lp 6.66 Lint 285	Collide 16 LER steering Heat problems 11 beam losses Lp 6.68 Lint 419
Collide 17 Heat problems SVT chiller 1.5 hr 8 beam losses Lp 6.52 Lint 358	Collide 18 SVT chiller 9+ hr bkflsh EP09 3 hr 3 losses in 12 hrs Lp 6.29 Lint 229	Collide 19 Energy scan STDZ 3 hrs 5 beam losses Lp 6.66 Lint 387	ROD 12 20 LI11 EP09 LI02 quad LER RF4-3 vac 0 losses in 7 hrs Lp 6.25 Lint 129	Collide 21 LI02 quad 24hrs No beam thru sector 2 quad EP09 No beams	Collide 22 Klys 1-6 19 hrs LER TFB timing Lp 5.58 Lint 57	Collide 23 Heat wave 8 beam losses Lp 6.17 Lint 271
Collide 24 4 beam losses Lp 6.88 Lint 486	Collide 25 N/SRTL bend 4hrs Klys 1-6 BIC 3 beam losses Lp 6.79 Lint 365	Collide 26 LI02 BBA 2450x1475 1502 bunches 4 beam losses Lp 7.27 Lint 466	ROD 8 27 LI02 quad 9hrs LCW leaks 0 losses in 15 hrs Lp 7.71 Lint 357	Collide 28 2475x1500 8 beam losses Lp 7.78 Lint 566	Collide 29 XCOR 3019 1hr 4 beam losses Lp 7.89 Lint 563	Collide 30 1550 HER current Vac pressure in upstream HER 6 beam losses Lp 7.69 Lint 527
Collide 31 6 beam losses Lp 7.43 Lint 502						

August

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat								
	Collide	1	2	3	4	5	6							
	Collide	7	8	9	10	11	12	13						
Collide	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Collide	28	29	30	31										

	Collide	1	2	3	4	5	6								
	Collide	7	8	9	10	11	12	13							
	Collide	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Collide	28	29	30	31											

	Collide	7	8	9	10	11	12	13
	Collide	14	15	16	17	18	19	20
	Collide	21	22	23	24	25	26	27
Collide	28	29	30	31				

	Collide	14	15	16	17	18	19	20
	Collide	21	22	23	24	25	26	27
	Collide	28	29	30	31			

	Collide	21	22	23	24	25	26	27
	Collide	28	29	30	31			

	Collide	28	29	30	31			
	Collide	28	29	30	31			

September

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				Collide 1 Off resonance 1548 bunches since 8/30 13 beam losses Lp 8.02 Lint 473	Collide 2 Off resonance LER TFB, LFB LER fast aborts 13 beam losses Lp 8.12 Lint 522	Collide 3 Off resonance LER SIT quad HER 12-5 1640 bunches 11 beam losses Lp 8.32 Lint 527
Collide 4 Off resonance HER 8 sta. 1594 bunches 8 beam losses Lp 8.02 Lint 514	Collide 5 Off resonance HER 8 sta. 18 beam losses Lp 7.93 Lint 442	MD 8 6 Off resonance LER grow-damp HER xtune, bbeat LI11,LINAC ergy 19 beam losses Lp 7.97 Lint 368	ROD 5 7 Off resonance NDR RF 5 hrs TFB setup 4 hrs HER 8 sta. 4 losses in 2 hrs Lp 7.46 Lint 190	Collide 8 Off resonance Rstrd HER tune HER 8 sta. tried 12-5 5 beam losses Lp 7.94 Lint 575	Collide 9 Off resonance LER 4 sta. 4.5 MV HER 8 sta. HER frag. Ink fan 10 beam losses Lp 8.08 Lint 488	Collide 10 On resonance LER TFB fdthru HER 8 sta. 1 beam loss Lp 8.28 Lint 511
Collide 11 HER 8 sta. 6 beam losses Lp 8.27 Lint 617	MD 8 12 Beam-Beam while delivering RF fiducial + BIC, LFB, TFB,4-2 7 beam losses Lp 8.22 Lint 323	MD 8 13 LER Linearizers HER 8 sta. 2 beam losses Lp 8.15 Lint 343	Collide 14 HER RF 4-1 LINAC quads HER 7 sta. 6 beam losses Lp 8.25 Lint 599	MD 8 15 Beam-Beam HER 8 sta. LINAC lamb. 14hr 0 losses in 8.5 hrs Lp 8.25 Lint 247	Collide 16 SDR RF 4hrs QDCX2 stdz 2 hrs 2700x1620 1640 bunches 9 beam losses Lp 8.52 Lint 394	Collide 17 LER X dispersion LER RF-LFB 2700x1630 23 beam losses Lp 8.58 Lint 480
Collide 18 LER LFB amp. 2hr PR02 Corr. Bulk 2500x1675 9 beam losses Lp 8.69 Lint 526	Collide 19 PR02 cor bulk 4hr LER LFB amp. 10 beam losses Lp 8.56 Lint 497	MD 8 20 High Lumi Tune Lsp NDR klystron 10hr Storm -- pwr dips 8 beam losses Lp 8.60 Lint 307	Collide 21 2520x1650 14 beam losses Lp 8.62 Lint 519	MD 8 22 High Lumi Tune Lsp at med. current 16 hr 5 losses in 8 hrs Lp 8.55 Lint 229	Collide 23 PR08 LER corr. EP05 corr. 2580x1600 1732 bunches 7 beam losses Lp 8.46 Lint 594	Collide 24 LER abort kicker Sector 4 timing 2525x1650 6 beam losses Lp 8.61 Lint 594
Collide 25 DR PS 1.5h coast LER BATs 6 hrs 14 beam losses Lp 8.50 Lint 408	Collide 26 T-gun arc 1hr 6 beam losses Lp 8.66 Lint 626	Collide 27 BaBar DIRC 15hr MDs: BBA, Beeam-Beam 2 losses in 9 hrs Lp 8.55 Lint 252	Collide 28 BaBar DIRC 15 hr Recovery 5 hrs LER 4-5 3 stations 5 losses in 6 hrs Lp 8.34 Lint 102	Collide 29 HER RF 12-6, 12-2 LER TFB 4 stations 2600x1660 28 beam losses Lp 8.58 Lint 374	Collide 30 HER RF 12-2 LER RF 4-5 LER dl/dt 15 beam losses Lp 8.22 Lint 520	

November

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
		<i>Beams off</i>	<i>Beams off</i>	<i>Beams off</i>	<i>Beams off</i>	<i>Beams off</i>
6	7	8	9	10	11	12
<i>Beams off</i>	<i>Beams off</i>	Regen NEG's <i>Beams off</i>	<i>Beams off</i>	<i>Beams off</i>	<i>Beams off</i>	<i>Beams off</i>
13	14	15	16	17	18	19
		e- to sector 30 e+ out of SDR PEP pwr supplys <i>Beams off</i>	QD1VL BaBar plg HER chopper gnd flt VCOR1L stored e+ stored e- <i>Beams off</i>	TFB and LFB <i>Beams off</i>	Flash TSPs Reg 12 RF HER LFB amp 1150x600 851 bunches Lp 0.95 Lint 0	Scrub PWR dip 9 hrs 1290x1150 1088 bunches Lp 2.35 Lint 4
Scrub 20	Scrub 21	Collide 22	Collide 23	Collide 24	Collide 25	Collide 26
HER LER TFB 2202 shorted coil Klixon 1500x1200 1456 bunches Lp 3.25 Lint 0	LER Steering 1800x1400 Lp 3.83 Lint 4	Ring Char HER steering 4 beam losses 1900x1300 Lp 5.32 Lint 137	HER TFB 10 beam losses 2130x1500 1594 bunches Lp 5.96 Lint 340	9 beam losses 2150x1430 Lp 6.53 Lint 441	BIC, 8-1BSOIC, RF12-6, TFB Mag. PS 16 beam losses 2150x1435 Lp 6.53 Lint 279	HER abort kicker HER TFB 8 beam losses 2100x1400 Lp 6.42 Lint 318
Collide 27	Collide 28	Collide 29	Collide 30			
HER abrt kkr, sept LER TFB, DCCT 16 beam losses 1579 bunches 2100x1400 Lp 6.41 Lint 237	HER abrt kickr 4hr HER choppr 11 hr 10 losses in 9 hrs 2000x1350 Lp 6.68 Lint 135	HER choppr 8 hrs HERvac arc11 5hr 4 losses in 7 hrs 1589 bunches 2200x1350 Lp 6.11 Lint 110	IP Y angle scan 2 beam losses 2050x1400 Lp 6.85 Lint 498			

December

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				Collide 1	Collide 2	Collide 3
				2 beam losses 2100x1435 Lp 6.96 Lint 529	HER RF 4-1 1.5hr RF 12-6 10 beam losses 1727 bunches 2450x1500 Lp 7.70 Lint 461	LER TFB 14 beam losses 2550x1575 Lp 7.95 Lint 524
Collide 4	Collide 5	Collide 6	Collide 7	Collide 8	Collide 9	Collide 10
LER TFB K1D bkr HER inj kckr #2 16 beam losses 2350x1575 Lp 7.53 Lint 373	LER TFB RF 4-1 12 beam losses 1589 bunches 2450x1600 Lp 7.97 Lint 466	LER TFB, dl/dt SBST 16, Q546 21 beam losses 2300x1500 Lp 7.27 Lint 136	LER fast dl/dt (17) 25 beam losses 2100x1430 Lp 6.80 Lint 348	LER fast dl/dt (21) BaBar elec. fan 13 losses in MD 31 beam losses 2100x1520 Lp 7.53 Lint 318	dl/dt,bpm2062 5hr LER RF 4.05 MV 1727 bunches 10 beam losses 2180x1500 Lp 7.72 Lint 268	e+ Klys 20-3C 3hr dl/dt Gproto in LER X 8 beam losses 1800x1500 Lp 7.12 Lint 386
Collide 11	Collide 12	Collide 13	Collide 14	Collide 15	Collide 16	Collide 17
NDR P.S. 14 hrs 4 losses in 10 hrs 2200x1500 Lp 7.38 Lint 219	LER fast dl/dt (9) HER RF 4-1 15 beam losses 2500x1605 Lp 8.45 Lint 485	LINAC klixon 4 hr 21 beam losses 2450x1600 Lp 8.42 Lint 380	LINAC klixon 4 hr Rad. Aborts 25 beam losses 2500x1625 Lp 8.40 Lint 324	LINAC unstable Rad. Aborts LER X angle 23 beam losses 2500x1575 Lp 8.07 Lint 338	Rad. aborts Cavity temp test 19 beam losses 2500x1600 Lp 7.79 Lint 409	15 Rad. aborts 2000x1400 no abts 21 beam losses 2500x1580 Lp 7.83 Lint 405
Collide 18	Collide 19	Collide 20	Collide 21	Collide 22	Collide 23	Collide 24
6 Rad. aborts By4 8hrs no abts LER no abts 4 hrs 14 beam losses 2400x1400 Lp 7.81 Lint 293	BIC and BxBCM 16 beam losses 2400x1500 Lp 7.93 Lint 337	HER TFB 18 beam losses Lp 7.93 Lint 324	6 beam losses Lp 8.60 Lint 420	Christmas Holidays		
				17 beam losses Lp 7.44 Lint 299	22 beam losses Lp 6.72 Lint 252	19 beam losses Lp 6.46 Lint 323
Collide 25	Collide 26	Collide 27	Collide 28	Collide 29	Collide 30	Collide 31
Christmas Holidays						
6 beam losses Lp 5.58 Lint 397	6 beam losses Lp 5.90 Lint 433	11 beam losses Lp 5.87 Lint 425	7 beam losses Lp 5.94 Lint 400	15 beam losses Lp 5.99 Lint 385	14 beam losses Lp 5.82 Lint 354	19 beam losses Lp 5.80 Lint 332