

Appendix G – Airfield Capacity (FAA AC 150/5060-5)

Table G-1
ASV Weighting Factor

Percent of Maximum Capacity	Weighting Factors			
	VFR	IFR		
		Mix Index (0-20)	Mix Index (21-50)	Mix Index (51-180)
91+	1	1	1	1
81-90	5	1	3	5
66-80	15	2	8	15
51-65	20	3	12	20
0-50	25	4	16	25

Figure G-1
Runway Use Diagrams

Runway Use Diagram	Dist. No.	Runway Length in Feet (ft)	Capacity No.				Runway Use Diagram	Dist. No.	Runway Length in Feet (ft)	Capacity No.				Runway Use Diagram	Dist. No.	Runway Length in Feet (ft)	Capacity No.			
			For Arrivals	For Departures	For Arrivals	For Departures				For Arrivals	For Departures	For Arrivals	For Departures				For Arrivals	For Departures		
	1	NA	3-3	3-11	3-71	3-90		25	2000 to 2400	3-21	3-16	3-12	3-11		76	0° to 14°	3-3	3-4	3-76	3-81
	2	700 to 1400	3-1	3-14	3-72	3-81		26	2000 to 2400	3-22	3-15	3-13	3-10		75	15° to 30°	3-6	3-4	3-75	3-82
	3	2500 to 3000	3-5	3-14	3-73	3-81		27	2500 to 3000	3-22	3-15	3-13	3-10		76	0° to 14°	3-3	3-4	3-76	3-81
	4	2500 to 3000	3-5	3-15	3-74	3-82		28	2500 to 3000	3-22	3-15	3-13	3-10		77	15° to 30°	3-6	3-4	3-77	3-82
	5	700 to 1400	3-7	3-14	3-75	3-81		29	2500 to 3000	3-22	3-15	3-13	3-10		78	NA	3-8	3-4	3-78	3-83
	6	2500 to 3000	3-8	3-15	3-76	3-82		30	2500 to 3000	3-22	3-15	3-13	3-10		79	0° to 14°	3-3	3-4	3-79	3-84
	7	2500 to 3000	3-8	3-15	3-77	3-82		31	2500 to 3000	3-22	3-15	3-13	3-10		80	15° to 30°	3-6	3-4	3-80	3-85
	8	700 to 1400	3-9	3-14	3-71	3-81		32	2500 to 3000	3-22	3-15	3-13	3-10		81	0° to 14°	3-3	3-4	3-81	3-86
	9	2500 to 3000	3-10	3-15	3-71	3-81		33	2500 to 3000	3-22	3-15	3-13	3-10		82	15° to 30°	3-6	3-4	3-82	3-87
	10	2500 to 3000	3-10	3-15	3-71	3-81		34	2500 to 3000	3-22	3-15	3-13	3-10		83	0° to 14°	3-3	3-4	3-83	3-88
	11	2500 to 3000	3-10	3-15	3-71	3-81		35	2500 to 3000	3-22	3-15	3-13	3-10		84	15° to 30°	3-6	3-4	3-84	3-89
	12	700 to 1400	3-11	3-15	3-76	3-82		36	2500 to 3000	3-22	3-15	3-13	3-10		85	0° to 14°	3-3	3-4	3-85	3-90
	13	700 to 1400	3-11	3-15	3-76	3-82		37	2500 to 3000	3-22	3-15	3-13	3-10		86	15° to 30°	3-6	3-4	3-86	3-91
	14	2500 to 3000	3-11	3-15	3-76	3-82		38	2500 to 3000	3-22	3-15	3-13	3-10		87	0° to 14°	3-3	3-4	3-87	3-92
	15	2500 to 3000	3-11	3-15	3-76	3-82		39	2500 to 3000	3-22	3-15	3-13	3-10		88	15° to 30°	3-6	3-4	3-88	3-93
	16	700 to 1400	3-12	3-15	3-77	3-82		40	2500 to 3000	3-22	3-15	3-13	3-10		89	0° to 14°	3-3	3-4	3-89	3-94
	17	2500 to 3000	3-12	3-15	3-77	3-82		41	2500 to 3000	3-22	3-15	3-13	3-10		90	15° to 30°	3-6	3-4	3-90	3-95
	18	2500 to 3000	3-12	3-15	3-77	3-82		42	2500 to 3000	3-22	3-15	3-13	3-10		91	0° to 14°	3-3	3-4	3-91	3-96
	19	700 to 1400	3-14	3-15	3-73	3-82		43	2500 to 3000	3-22	3-15	3-13	3-10		92	15° to 30°	3-6	3-4	3-92	3-97
	20	2500 to 3000	3-13	3-15	3-73	3-82		44	2500 to 3000	3-22	3-15	3-13	3-10		93	0° to 14°	3-3	3-4	3-93	3-98
	21	2500 to 3000	3-13	3-15	3-73	3-82		45	2500 to 3000	3-22	3-15	3-13	3-10		94	15° to 30°	3-6	3-4	3-94	3-99
	22	2500 to 3000	3-13	3-15	3-73	3-82		46	2500 to 3000	3-22	3-15	3-13	3-10		95	0° to 14°	3-3	3-4	3-95	3-100
	23	700 to 1400	3-14	3-15	3-78	3-82		47	2500 to 3000	3-22	3-15	3-13	3-10		96	15° to 30°	3-6	3-4	3-96	3-101
	24	700 to 1400	3-15	3-15	3-78	3-82		48	2500 to 3000	3-22	3-15	3-13	3-10		97	0° to 14°	3-3	3-4	3-97	3-102
	25	2500 to 3000	3-15	3-15	3-80	3-82		49	2500 to 3000	3-22	3-15	3-13	3-10		98	15° to 30°	3-6	3-4	3-98	3-103
	26	2500 to 3000	3-15	3-15	3-80	3-82		50	2500 to 3000	3-22	3-15	3-13	3-10		99	0° to 14°	3-3	3-4	3-99	3-104
	27	700 to 1400	3-15	3-15	3-79	3-82		51	2500 to 3000	3-22	3-15	3-13	3-10		100	15° to 30°	3-6	3-4	3-100	3-105
	28	2500 to 3000	3-17	3-15	3-80	3-82		52	2500 to 3000	3-22	3-15	3-13	3-10		101	0° to 14°	3-3	3-4	3-101	3-106
	29	700 to 1400	3-18	3-15	3-81	3-82		53	2500 to 3000	3-22	3-15	3-13	3-10		102	15° to 30°	3-6	3-4	3-102	3-107
	30	2500 to 3000	3-18	3-15	3-81	3-82		54	2500 to 3000	3-22	3-15	3-13	3-10		103	0° to 14°	3-3	3-4	3-103	3-108
	31	2500 to 3000	3-18	3-15	3-81	3-82		55	2500 to 3000	3-22	3-15	3-13	3-10		104	15° to 30°	3-6	3-4	3-104	3-109
	32	2500 to 3000	3-18	3-15	3-81	3-82		56	2500 to 3000	3-22	3-15	3-13	3-10		105	0° to 14°	3-3	3-4	3-105	3-110
	33	2500 to 3000	3-18	3-15	3-81	3-82		57	2500 to 3000	3-22	3-15	3-13	3-10		106	15° to 30°	3-6	3-4	3-106	3-111
	34	2500 to 3000	3-18	3-15	3-81	3-82		58	2500 to 3000	3-22	3-15	3-13	3-10		107	0° to 14°	3-3	3-4	3-107	3-112
	35	2500 to 3000	3-18	3-15	3-81	3-82		59	2500 to 3000	3-22	3-15	3-13	3-10		108	15° to 30°	3-6	3-4	3-108	3-113
	36	2500 to 3000	3-18	3-15	3-81	3-82		60	2500 to 3000	3-22	3-15	3-13	3-10		109	0° to 14°	3-3	3-4	3-109	3-114
	37	2500 to 3000	3-18	3-15	3-81	3-82		61	2500 to 3000	3-22	3-15	3-13	3-10		110	15° to 30°	3-6	3-4	3-110	3-115
	38	2500 to 3000	3-18	3-15	3-81	3-82		62	2500 to 3000	3-22	3-15	3-13	3-10		111	0° to 14°	3-3	3-4	3-111	3-116
	39	2500 to 3000	3-18	3-15	3-81	3-82		63	2500 to 3000	3-22	3-15	3-13	3-10		112	15° to 30°	3-6	3-4	3-112	3-117
	40	2500 to 3000	3-18	3-15	3-81	3-82		64	2500 to 3000	3-22	3-15	3-13	3-10		113	0° to 14°	3-3	3-4	3-113	3-118
	41	2500 to 3000	3-18	3-15	3-81	3-82		65	2500 to 3000	3-22	3-15	3-13	3-10		114	15° to 30°	3-6	3-4	3-114	3-119
	42	2500 to 3000	3-18	3-15	3-81	3-82		66	2500 to 3000	3-22	3-15	3-13	3-10		115	0° to 14°	3-3	3-4	3-115	3-120
	43	2500 to 3000	3-18	3-15	3-81	3-82		67	2500 to 3000	3-22	3-15	3-13	3-10		116	15° to 30°	3-6	3-4	3-116	3-121
	44	2500 to 3000	3-18	3-15	3-81	3-82		68	2500 to 3000	3-22	3-15	3-13	3-10		117	0° to 14°	3-3	3-4	3-117	3-122
	45	2500 to 30																		

Nonparallel Diagram	Diagram No.	Angle θ	Figure No.			
			Per Capacity		Per Delay	
			1000	1500	1000	1500
	14	NA	3-41	3-44	3-75	3-81
	15	0° to 14°	3-42	3-44	3-74	3-81
	16	15° to 30°	3-42	3-47	3-74	3-101
	17	NA	3-4	3-44	3-74	3-81
	18	NA	3-4	3-44	3-72	3-81
	19	0° to 14°	3-4	3-44	3-74	3-81
	20	15° to 30°	3-4	3-45	3-74	3-101
	21	NA	3-4	3-44	3-75	3-81
	22	0° to 14°	3-14	3-44	3-72	3-81
	23	15° to 30°	3-14	3-47	3-72	3-101
	24	NA	3-12	3-44	3-77	3-81
	25	0° to 14°	3-46	3-44	3-88	3-81
	26	15° to 30° C = 2000	3-46	3-47	3-88	3-101

Nonparallel Diagram	Diagram No.	Angle θ	Figure No.			
			Per Capacity		Per Delay	
			1000	1500	1000	1500
	15	NA	3-17	3-44	3-88	3-91
	16	NA	3-41	3-44	3-75	3-81
	17	NA	3-41	3-44	3-75	3-81
	18	0° to 14°	3-42	3-44	3-74	3-81
	19	15° to 30°	3-42	3-47	3-74	3-101
	20	NA	3-41	3-44	3-75	3-81

NOTES:

- THE MINIMUM CENTERLINE SPACING OF PARALLEL RUNWAYS USED FOR SIMULTANEOUS OPERATIONS IS:
 - 700 FEET IF USED BY ALL AIRCRAFT CLASSES A, B, C, AND D
 - 500 FEET IF USED ONLY BY AIRCRAFT CLASSES A AND B
 - 300 FEET IF USED EXCLUSIVELY BY AIRCRAFT CLASS A
- EXCEPTIONS AT A POSITIVE CONTROLLED AIRPORT, IF A FLIGHT PLAN OR A PPRF PERMITTING THE CENTERLINE-TO-CENTERLINE SPACING TO ACCOMMODATE SIMULTANEOUS ARRIVAL STREAMS IS 1,000 FEET EVEN IF VFR CONDITIONS. THE CAPACITY LOADING FACTOR ON CLOSELY SPACED PARALLEL RUNWAYS AT POSITIVE CONTROLLED AIRPORTS REQUIRES CAREFUL EVALUATION IN THE COMMUNICATIONS
- INVESTIGATE THE THRESHOLD STAGGER CORRECTION DISCUSSED IN PARAGRAPH 4.4 OF CHAPTER 4 FOR APPROVAL STREAMS TO PARALLEL RUNWAY CONFIGURATIONS WITH CENTERLINES SPACED LESS THAN 1,000 FEET APART.
- WITH PRECISION RUNWAY MONITORING (PRM), AIRPORTS MAY HAVE SIMULTANEOUS INDEPENDENT (SIMULTANEOUS) APPROACHES TO PARALLEL RUNWAYS WITH CENTERLINES SEPARATED BY 1,000 TO 1,400 FEET.
- GIVEN FIGURE 4.4, ASSUME THE FOLLOWING RELATIONSHIP WHEN THERE ARE THREE OR MORE PARALLEL RUNWAYS USED BY ALL AIRCRAFT.

WHEN	APPROX
1000 ≤ S ≤ 1400	1000 ≤ C ≤ 1400
1400 ≤ S ≤ 2000	1400 ≤ C ≤ 2000
S ≥ 2000	C ≥ 2000

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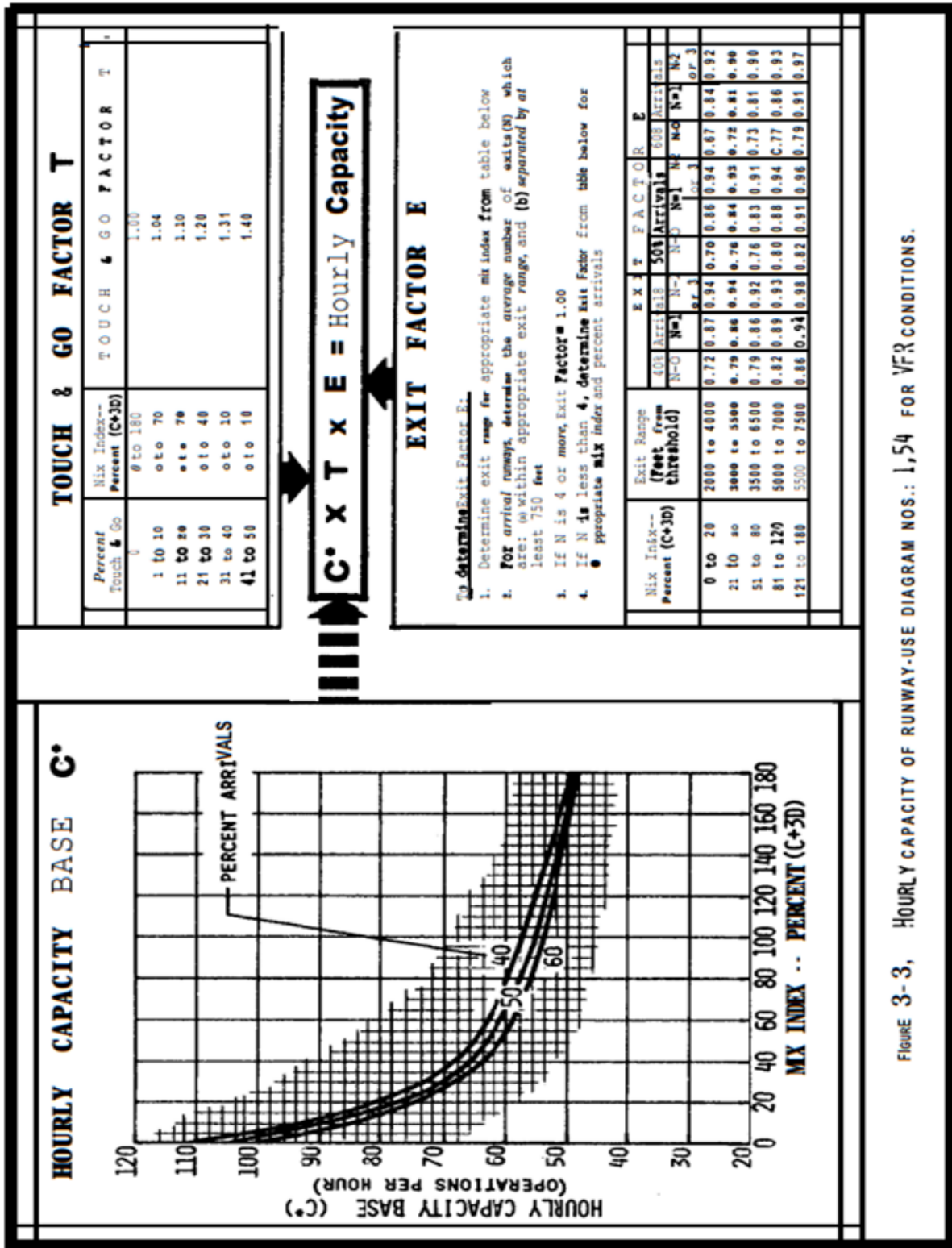
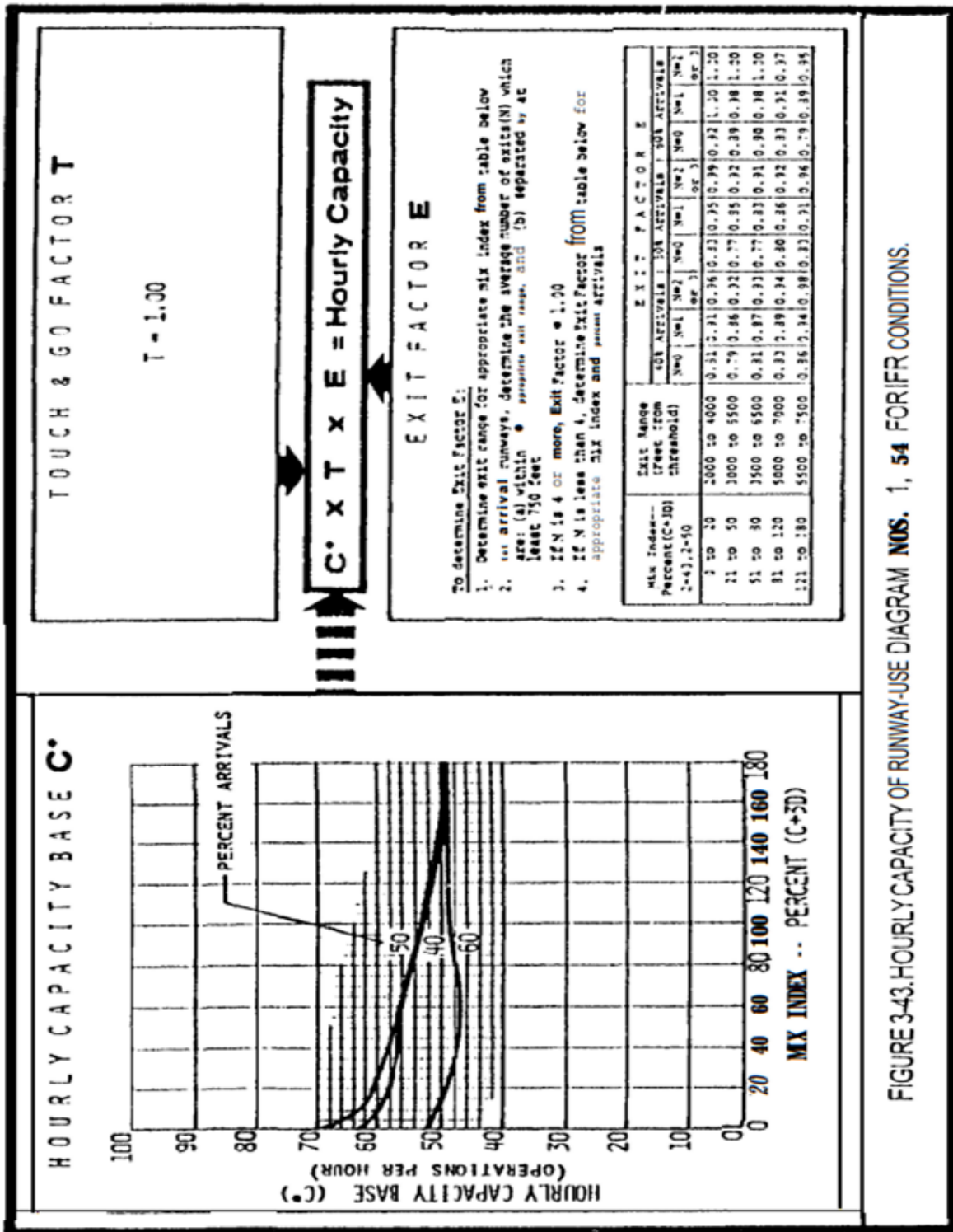


FIGURE 3-3, HOURLY CAPACITY OF RUNWAY-USE DIAGRAM NOS.: 1,54 FOR VFR CONDITIONS.



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